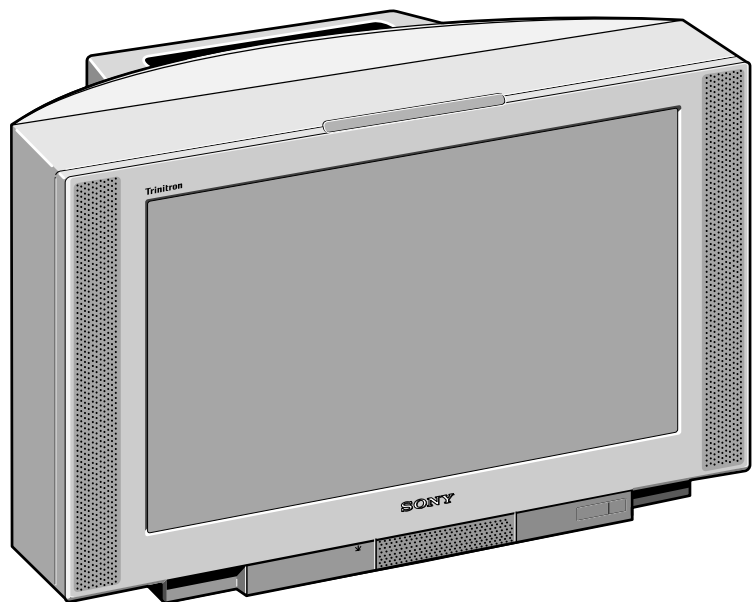


SERVICE MANUAL

AE-5 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FS60A	RM-891	Italian	SCC-Q12E-A	KV-32FS60A	RM-891	Italian	SCC-Q12F-A
KV-29FS60B	RM-891	French	SCC-Q13E-A	KV-32FS60B	RM-891	French	SCC-Q13F-A
KV-29FS60D	RM-891	AEP	SCC-Q11E-A	KV-32FS60D	RM-891	AEP	SCC-Q11F-A
KV-29FS60E	RM-891	Spanish	SCC-Q14E-A	KV-32FS60E	RM-891	Spanish	SCC-Q14F-A
KV-29FS60K	RM-891	OIRT	SCC-Q16G-A				
KV-29FS60R	RM-891	OIRT	SCC-Q16H-A				
KV-29FS60U	RM-891	UK	SCC-Q15D-A				



MC-Service

TRINITRON® COLOR TV
SONY®



ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
Italian	B/G/H,D/K	GERMAN Stereo	ITALIA VHF : A-H2 (C) UHF : 21-69 PAL B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05,M1-M10,U1-U10 DK VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
French	B/G/H, D/K,L,I	GERMAN/NICAM Stereo	L VHF : F02-F10 UHF : F21-F60 CABLE : B-Q B/G/H VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69 I UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H/ VHF : E2-E12 : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69 D/K VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
Spanish	B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G/H/ VHF : E2-E12 : E21-E69 CABLE TV (1) : S1-S41 CABLE TV (2) : S01-S05, M1-M10, U1-U10 ITALIA VHF : A-H2 (C) UHF : 21-69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
OIRT	B/G/H, D/K	KV-29FS60K GERMAN/NICAM Stereo KV-29FS60R GERMAN Stereo	B/G/H/ VHF : E2-E12 UHF : E21-E69 CABLE TV (1) : S1-S41 D/K VHF : R01-R12 UHF : R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	I	NICAM Stereo	UHF : B21-B69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
Power Consumption	149Wh	148Wh	148Wh	148Wh	148W	148W	148Wh	144Wh	149Wh	149Wh	149Wh

[PICTURE TUBE]

KV-29FS60

FD Trinitron
Approx. 72 cm (29 inches)
(Approx. 68 cm picture measured diagonally)
102 degree deflection

[FRONT]

3 Video output - phono jack
3 Audio inputs - phono jacks
3 S Video input - 4 pin DIN
Headphone jack : stereo minijack

KV-32FS60

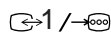
FD Trinitron
Approx. 82 cm (32 inches)
(Approx. 76 cm picture measured diagonally)
102 degree deflection

Sound output 2x25W (Music Power)
Power requirements 220 - 240V


Dimensions
KV-29FS60 Approx 738 x 588 x 507 mm (w/h/d)
KV-32FS60 Approx 867 x 564 x 558 mm (w/h/d)

Input/Output Terminals

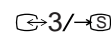
[REAR]

 21-pin Euro connector (CENELEC standard).

- Inputs for Audio and Video signals.
- Inputs for RGB.
- Outputs of TV Video and Audio signals.

 21-pin Euro connector

- Inputs for Audio and Video signals.
- Inputs for S video.
- Outputs for Video and Audio signals (selectable).

 21-pin Euro connector

- Inputs for Audio and Video signals.
- Inputs for S video.

External speaker terminals : 2-pin DIN (5)

Weight

KV-29FS60 Approx 55kg
KV-32FS60 Approx 68kg

Supplied accessories

RM-891 Remote Commander (1)
IEC designated R6 battery (2)

Other features

NICAM*, FASTEXT, TOPTXT
* (KV-29FS60B/29FS60E/29FS60K/
29FS60U/32FS60B/32FS60E only)

MC-Service


[RM-891]

Remote control system	Infrared control
Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Dimensions	Approx 210x56x24mm (w/h/d)
Weight	Approx 110g (Not including battery)

Design and specifications are subject to change without notice.

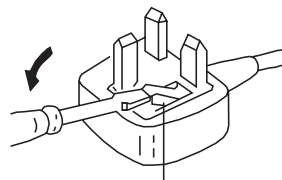
Model Name	KV-29FS60A	KV-29FS60B	KV-29FS60D	KV-29FS60E	KV-29FS60K	KV-29FS60R	KV-29FS60U
Item	KV-32FS60A	KV-32FS60B	KV-32FS60D	KV-32FS60E			
Pal Comb	ON	ON	ON	ON	ON	ON	ON
PIP	OFF	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	ON	ON	ON	ON	ON	ON
Woofer Box	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON	ON
Scart 4	ON	ON	ON	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON	ON	ON	ON
Nicam Stereo	OFF	ON	OFF	ON	ON	OFF	ON
Language Preset	Italian	French	German	Spanish	OIRT	OIRT	English

WARNING (KV-29FS60U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the  mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE OUTLET SOCKET.

When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.

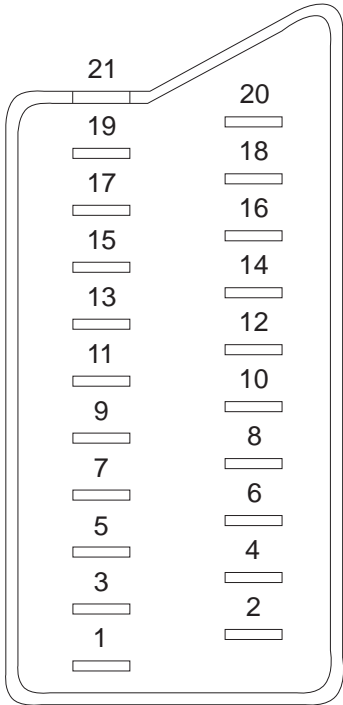
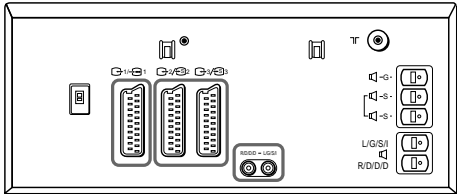


How to replace the fuse.
Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

MC-Service

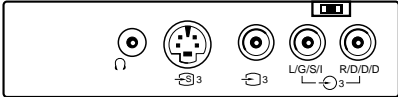
21 pin connector



Pin No	1	2	4	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedance : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
	-	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedance : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	-	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75 ohm, positive Sync.



AE-5 SELF DIAGNOSTIC SOFTWARE

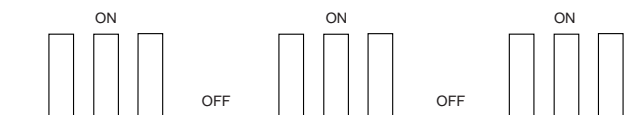
The identification of errors within the AE-5 chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1., non fatal errors are reported using this method.

Diagnostic Item Description	No of times Standby LED Flashes	Probable cause Location	Detected Symptoms
Power does not turn on	Does not light	Power cord is not plugged in Fuse is burned out	Power does not come on No power is supplied to the TV AC power supply is faulty
+B Overcurrent (OCP)	2 times	H.OUT (Q6803/6804) is shorted. (D Board) Linearity FET (Q6806) is shorted. (D Board) IC6604 Power IC is shorted. (D Board)	Power does not come on Load on power line has shorted
Vertical Deflection stopped	4 times	+15V is not supplied R6835 open (D Board) -15V is not supplied R6834 open (D Board) IC6700 is shorted (D Board)	Vertical deflection pulse has stopped Power line has shorted

ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash!)	01
Over Current Protection	02
Over Voltage Protection	03
Vertical Protection	04
AKB	05
H - Protection	06
Speaker Protection	07
General IIC Line 0 error	08
MEGATEXT	09
NVM	10
Main colour decoder	11
Feature Box	12
D/A converter	13
Backend	14
Multi sound processor	15
Auto Wide	16
External RAM	17

Flash Timing Example : e.g. error number 3

StBy LED



MC-Service

ERROR DETECTION MONITOR

Device acknowledge is used to check IIC errors. Device acknowledge is checked by sending an IIC start sequence during CRT power on. Each device is checked three times, if there is no acknowledge after every attempt, it will be regarded as an error.

There are three steps to check errors

1. IIC line 0
If all devices except the NVM have errors, IIC line 0 error is displayed
2. Board check
If all devices mounted on one board have errors, board error is displayed
3. Each device check
If IIC line error and board error are not detected then the device with an error is displayed

The detected errors can be displayed as follows:

1. Error Monitor Menu
2. Error Reader

1. ERROR MONITOR MENU

The error monitor menu is displayed by selecting TT33. The following menu will be displayed:

ERROR MONITOR

Operating Time :
930360h 15h

Saved Errors :

1. 100h = A-Board
2. 401h = BP-B CXD2069 MID
3. 704h = J-B TDA9320 Main Col Dec
4. 000h = no error occurred
5. 000h = no error occurred

Actual Error :

New error code sequence is starting

Ignore Errors : [off]

MC-Service

2. ERROR READER DISPLAY

The error reader display is connected to the service connector to read actual error codes. The part number for the error reader display is S-188-900-10. Once an error has been detected it will then be displayed on the two digit error reader. The errors displayed refer to the following table :

Send Data to Error Reader				
Error Code	Data high	Data Low	Error type	Function
00 00h	-	f0h	no device	
Gen.IIC Error				
00 01h	f0h	01h	IIC 0 line	
00 02h	f0h	02h	IIC 1 line	not used
Board Error				
01 00h	f1h	00h	A Board	
02 00h	f2h	00h	B1 Board	
03 00h	f3h	00h	B2 Board	
04 00h	f4h	00h	BP Board	
05 00h	f5h	00h	D1 Board	
06 00h	f6h	00h	E Board	
07 00h	f7h	00h	J Board	
Device Error				
A Board				
01 01h	f1h	01h	CXA1875	Port Expander
01 02h	f1h	02h	TU1326	Main Tuner
01 03h	f1h	03h	TU1350	Sub Tuner
B1 Board				
02 01h	f2h	01h	P83C654	Feature Box
02 02h	f2h	02h	SDA9280	D/A Converter
B2 Board				
03 01h	f3h	01h	SAA4977	Basic
03 02h	f3h	02h	SAA4950	Memory
BP Board				
04 01h	f4h	01h	CXD2069	MID
D1 Board				
05 01h	f5h	01h	CXA8070	Dynamic Conv.
05 02h	f5h	02h	CXA1875	Port Expander
E Board				
06 01h	f6h	01h	CXD2100	Backend
J Board				
07 01h	f7h	01h	CXD2057	Auto Wide
07 02h	f7h	02h	SDA9288	PIP
07 03h	f7h	03h	TDA9320	Sub Colour
07 04h	f7h	04h	TDA9320	Main Colour
07 05h	f7h	05h	CXA1875	Sub Sound
07 06h	f7h	06h	TDA7309	HP Amp
07 07h	f7h	07h	TEA6422DT	Audio SW
07 08h	f7h	08h	MSP3410D	Sound Proc
07 09h	f7h	09h	TC9337F	Sound DSP

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			7. ELECTRICAL PARTS LIST		133


CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP

WARNING !!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

MC-Service


ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ !!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE  SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

Overview

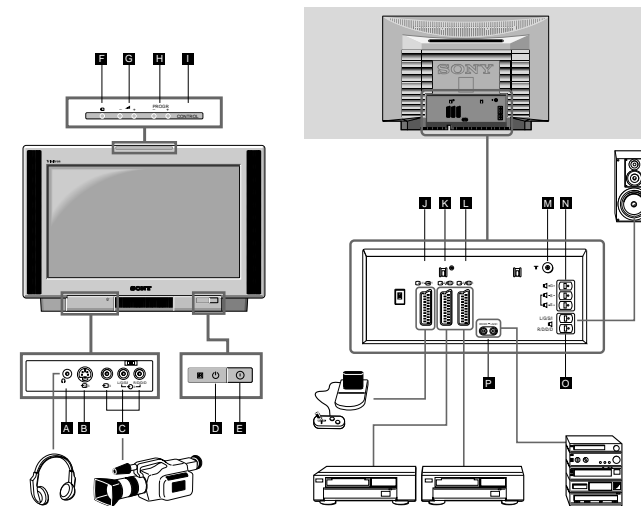
i This section briefly describes the buttons and controls on the TV set and the Remote Control. Open the flaps at the front and back of this Instruction Manual for detailed illustrations. For more information refer to the page numbers given in the overview.

Remote Control

Symbol	Description	See page
1 TVI/⏻	TV: standby mode on/off	32
2	TV: on-screen display	32
	Teletext: index page	42
3	Selecting of input source	44
4	Teletext: Freezing a subpage	42
5	PIP: Swapping the screens	41
6	PIP: Selecting the source	41
7	PIP: Switching on and off	41
8 1, 2, ..., 9, 0	Number buttons	32
9	Back to the channel last selected	32
10	Selecting of screen format	32
11	No function on this set	
12	Joystick for menu selection	31
	Press OK to confirm	
13 MENU	Switching on and off of Menu system	31
14 PROGR +/-	TV: Channel selection up- and downwards	32
15	Teletext: Page selection up- and downwards	42
16	Volume control	32
17	Picture mode	32
18	Equaliser mode	32
19	Selection of double digit channel numbers	32
20	Freezing of TV picture	32
21	No function on this set	
22	Teletext: Switching on	42
23	Teletext: Switching off	42
24	Muting of sound on/off	32
25 VIDEOI/⏻	VCR: Standby mode	45
Buttons under cover		
26	Displaying of the time	32
27 CH +/-	VCR operation	45
VTR 1 2 3 4 MDP	Video equipment selector	
28	Buttons for VCR operation	
29	Resetting of picture setting	32

TV-set – front and top

Symbol	Description	See page
A	Headphone jack	54
B	S-video input jack	52
C	Phono video/audio inputs	52
D	Indicator for Standby mode	37
E	Power switch	37
F	Selecting input source	52
G	Volume control	37
H	Channel selection up- and downwards	37
I	Control panel: Switching on/off	37



TV-set – rear

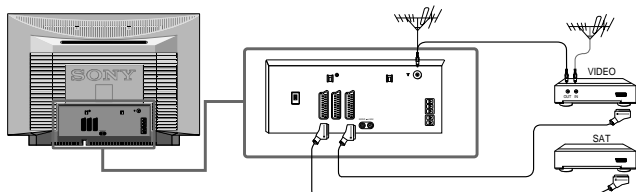
Symbol	Description	See page
J	21-pin Euro connector (Scart)	52
K	21-pin Euro connector (Scart)	52
L	21-pin Euro connector (Scart)	52
M	Aerial socket	35
N	R/D/D/D, L/G/S/I, G, G, S, G, C	34
O	L/G/S/I, R/D/D/D	34
P	L/G/S/I, R/D/D/D	54

Installation

B Connecting the TV Set

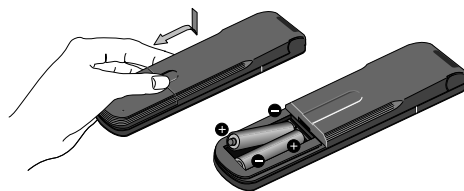
- 1 Connect the TV set to the mains socket (220-240 V. AC, 50 Hz).
- 2a Connect a conventional aerial cable to the socket marked **T** **M** on the rear of the TV set or
- 2b Connect your Satellite Receiver to one of the Scart connectors **J** **K** **L** of the TV set.

i When connecting a VCR to your TV set:
We recommend that you use the preset function Manual Programme Preset (page 38) to tune in the VCR signal to programme position 0.



C Inserting the Batteries into the Remote Control

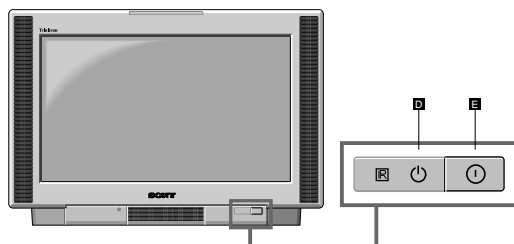
A Make sure to insert the batteries using the correct polarities.
Dispose of exhausted batteries according to your local regulations.



D Switching on the TV Set

- Press the switch **⏻** **E** at the front of the TV set.

i If the standby mode indicator **⏻** **D** on the TV is lit, press TV I/⏻ **⏻** on the Remote Control to switch on the TV set.

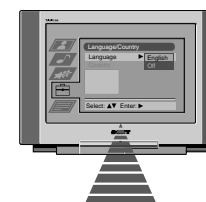
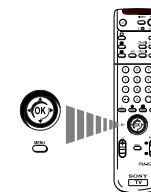


Step 2 Basic Presetting

A The Menu System

i Your TV uses an on-screen menu system to guide you through the operations.
Use the following buttons on the Remote Control to operate the menu system:

- Press MENU **⏻** to switch the menu on and off.
- Use **⏻**, **▶**, **▲**, **▼** of the joystick **⏻** to select within the menu system.
- Press OK to store.
- When menu is switched off:
Press **⏻** to return to the last menu screen.



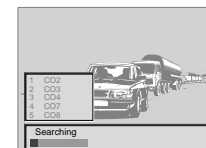
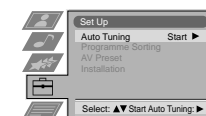
B Selecting Language and Country

- 1 Press the MENU **⏻** button.
 - A** The menu Language/Country appears on the screen.
 - 2 Push the joystick **⏻** to **▶**. Push the joystick **⏻** to **▼** to select the language. Press OK **⏻**.
 - A** The menus appear in the selected language.
 - 3 Push the joystick **⏻** to **▼** to select Country. Push the joystick **⏻** to **▶**.
 - 4 Select the country in which you will operate the TV set using **▼** or **▲**.
- i** Select Off if you wish an automatic tuning **without** ACI (fast presetting with a given channel sequence).
- Confirm by pressing OK **⏻**.
- A** The menu Auto Tuning appears.



C Automatic Tuning In of Channels

- Push the joystick **⏻** to **▶** for more than 2 sec..
- A** After all available channels are stored, the TV goes back to the programme position with which you started the automatic tuning. Your TV is now ready for use.
- To stop the automatic tuning: Press OK **⏻**.
- If you wish to change the sequence of the stored channels, go to Sorting Programme Positions in Advanced Presetting.
- If you need to change or repeat the tuning afterwards (e.g. when you move house) : select the menu Auto Tuning in the Set Up **⏻** menu.

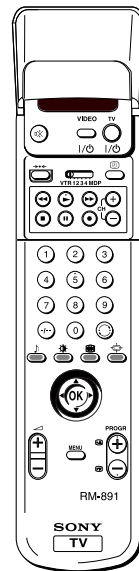
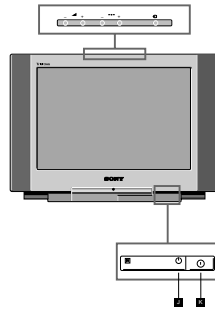


MC-Service

Step 3 Basic TV operation

i This section explains the most important functions for the daily use of your TV set. When using the control panel on the top of the TV set, first press **CONTROL**, then **F**, **G** or **H**.

Function	Operation
Switching on/off	<ul style="list-style-type: none"> Press ⏻ E on the TV set. To save energy, we recommend to switch off the TV completely when set is not in use.
Switching off temporarily (Standby mode)	<ul style="list-style-type: none"> Press TV I/⏻ Ⓜ. TV is now in standby mode. Indicator Ⓜ D lights up. After 15 min. without any TV signal and no pressing of a button, the TV automatically goes into standby mode.
Switch on from standby mode	<ul style="list-style-type: none"> Press TV I/⏻ Ⓜ, PROGR +/- H or any number button Ⓜ.
Selecting channels	<ul style="list-style-type: none"> Press PROGR +/- H or the number buttons Ⓜ. For a double digit number first press -/+ Ⓜ, then the two number buttons.
Using the Channel overview	<ul style="list-style-type: none"> Press OK Ⓜ. Push to ⏻ or ▶ to select a channel, push to ▶ to confirm.
Going to the channel last selected	<ul style="list-style-type: none"> Press ⏮ Ⓜ.
Adjusting the volume	<ul style="list-style-type: none"> Press ⏮ + or - G.
Muting the sound	<ul style="list-style-type: none"> Press ⏮ Ⓜ to switch sound off or on.
Selecting Equaliser mode (See also page 39)	<ul style="list-style-type: none"> Press ⏮ repeatedly Ⓜ to select one of the following modes: Personal, Vocal, Jazz, Rock, Pop or Flat
Selecting Picture mode (see also page 38)	<ul style="list-style-type: none"> Press ⏮ repeatedly Ⓜ to select one of the following modes: Personal, Movie or Live.
Freezing the picture	<ul style="list-style-type: none"> Press ⏮ Ⓜ if you wish to make a note of an information, e.g., a telephone number. Press again to return to the normal TV screen.
Changing the screen format	<ul style="list-style-type: none"> Press ⏮ Ⓜ repeatedly to select 4:3 or 16:9 (imitation of wide screen format).
Resetting picture/sound settings to factory levels	<ul style="list-style-type: none"> Open the cover of the Remote Control. Press ⏮ Ⓜ.
Displaying on-screen indications	<ul style="list-style-type: none"> Press ⏮ Ⓜ to switch indications on or off.
Displaying the time (only when teletext is broadcast)	<ul style="list-style-type: none"> Open the cover of the Remote Control. Press ⏮ Ⓜ to switch time on or off.
Using Teletext (see also page 42)	<ul style="list-style-type: none"> Press ⏮ Ⓜ to switch on. Press ⏮ Ⓜ to switch off. Select a page using the number buttons Ⓜ. E.g. for page 125 press 1,2 and 5. Select the index page by pressing ⏮ Ⓜ.
Viewing the input signal of a connected device (see also page 44)	<ul style="list-style-type: none"> Press ⏮ Ⓜ repeatedly to select the desired input source. Press ⏮ Ⓜ to return to the TV picture.

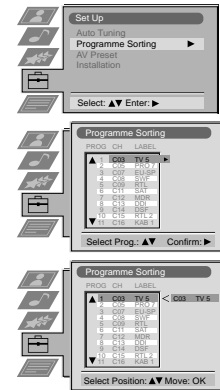


Advanced Operation

Advanced Presetting

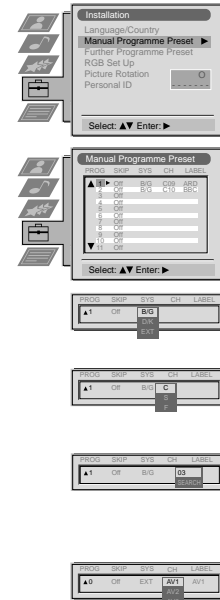
Sorting of Programme Positions

- After having used Automatic Tuning of channels you may wish to rearrange the order of the channels.
- Press **MENU**. Select the symbol **⏮** using **⏻**. Push to **▶**.
- Select Programme Sorting using **⏻**. Push to **▶** to enter.
- Select the programme position of the channel you wish to sort using **▲** or **▼**. Push to **▶** to enter.
- Move the channel to the new programme position using **▲** or **▼**. Store by pressing **OK**.
- The channel is now at the new position. The other programme positions move accordingly.
- To sort other programme positions repeat steps 3 to 4.
- Press **MENU** to return to the normal TV screen.



Manual Tuning In of Channels


- Use this function to preset channels or a video input source one by one to programme positions of your choice.
- Press **MENU**. Select the symbol **⏮** using **⏻**. Push to **▶**.
- Select Installation using **⏻**. Push to **▶** to enter.
- Select Manual Programme Preset using **⏻**. Push to **▶** to enter.
- Select the programme position by pushing to **▲** or **▼**. Push twice to **▶**. The column **SYS** is highlighted.
- Select the TV system using **▲** or **▼**. Push to **▶** to enter.
- Available TV systems are B/G for western European countries, D/K for eastern European countries, EXT for a video input source (please go to step 5c after selecting EXT)
- The column **CH** is highlighted.
- Select your method for the channel tuning using **▲** or **▼**. Push to **▶** to enter.
- You have the choice between **C** for a terrestrial channel, **S** for a cable channel, **F** for direct frequency input.
- a Direct Channel Input - S, C or F**
- For channel numbers input a two digit number, for the channel frequency a three digit number.
 - Select the two or three digits by using the number buttons 0 to 9.
 - To start the search and to store the channel, press **OK**.
 - To preset other channels repeat steps 3 to 5a.
- b Channel search (SEARCH)**
- Use Search if you do not know the channel number or frequency
 - Start the search for the next available channel by pushing to **▼**.
 - Store the channel by pressing **OK** or continue the search by pushing again to **▼**.
 - To search for other channels repeat steps 3 to 5b.
- c For video input sources (EXT)**
 - Select the Video Input source using **▲** or **▼**.
 - Store your selection by pressing **OK**.
 - To allocate other sources repeat steps 3 to 5c.
- Press **MENU** to return to the normal TV screen.

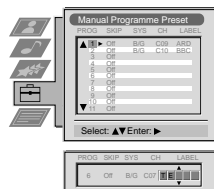


Advanced Presetting

Captioning a Station Name


- i** During presetting the channels are usually labelled automatically. You can, however, individually name a channel or a video input source.

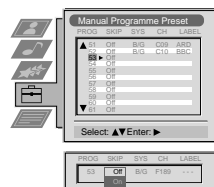
- 1 Press MENU. Select the symbol  using ▼. Push to ►.
- 2 Select Installation using ▼. Push to ► to enter. Select Manual Programme Preset using ▼. Push to ► to enter.
- 3 Select the programme position of the channel or the video source you wish to label by pushing to ▼ or ▲. Push repeatedly to ► until the first element of the position LABEL is highlighted.
- 4 Select a number, a letter, + or a blank using ▲ or ▼. Push to ► to confirm. Select the other four characters in the same way.
- 5 Store your selection by pressing OK.
- 6 To label other channels or video sources repeat steps 3 to 5.
- 7 Press MENU to return to the normal TV screen.



Skipping of Programme Positions

- i** In case of 100 programme positions there may be unused positions, which you can skip in the menu Manual Programme Preset. When changing channels with the PROGR +/- buttons they do then not appear. You can, however, still select them using the number buttons.

- 1 Press MENU. Select the symbol  using ▼. Push to ►.
- 2 Select Installation using ▼. Push to ► to enter. Select Manual Programme Preset using ▼. Push to ► to enter.
- 3 Select the programme position you wish to skip by pushing to ▲ or ▼. Push to ► to enter.
- ⚡** The column SKIP is highlighted.
- 4 Select ON using ▼.
- 5 Store by pressing OK.
- 6 To skip other programme positions repeat steps 3 to 5.
- 7 Press MENU to return to the normal TV screen.




Advanced Presetting

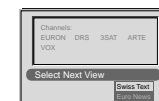
Selecting your NexTVView Provider*

*depending on availability of service

- i** NexTVView is an on-screen electronic programme guide, providing you with programme information on many broadcasters. Your TV set automatically selects a NexTVView provider. This provider will be available about 30 minutes after the channel tuning. You can however, also select a provider of your choice. See Using NexTVView on page 48 for information on the operation of NexTVView.


- ⚠** When using a satellite receiver make sure to connect the receiver to the aerial socket of your TV set.

- 1 Press MENU. Select the symbol  using ▼. Push ► to enter.
- 2 Select Select NexTVView using ▼. Push ► to enter.
- ⚡** A list is displayed containing all available NexTVView providers and the supported broadcasters.
- 3 Select the desired NexTVView provider by using ▲ or ▼. Store by pressing OK.
- 4 Press MENU to return to the normal TV screen.



Using of Further Programme Preset

- i** Using the menu Further Programme Preset you can
- a) individually attenuate the strength of a channel signal in case of a strong local aerial signal (striped picture).
 - b) individually adjust the volume level of each channel.
 - c) improve the quality of a weak channel (picture or sound distortions) with manual fine tuning.
 - d) preset the AV output for programme positions of those channels with scrambled signals (e.g. from a Pay TV decoder). In this way a connected Smartlink VCR records the unscrambled signal.

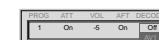
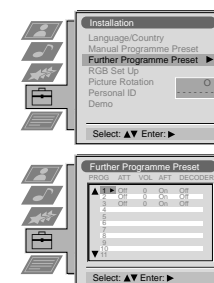
- 1 Press MENU. Select the symbol  using ▼. Push ► to enter.
- 2 Select Installation using ▼. Push ► to enter. Select Further Programme Preset using ▼. Push ► to enter.
- 3 Select the programme position of the desired channel by pushing ▲ or ▼. Push ► repeatedly to select:

- ⚡** The selected item changes colour.

- 4a **ATT**
Push ▼ to select ON. Store by pressing OK.
Repeat steps 3 and 4a if you wish to attenuate other channels.
- 4b **VOL**
Push ▲ or ▼ to adjust the volume level (range -7 to +7) of the channel. Store by pressing OK.
Repeat steps 3 and 4b if you wish to adjust the volume level of other channels.
- 4c **AFT**
Push ▲ or ▼ to fine tune the channel (range -15 to +15). Store by pressing OK.
Repeat steps 3 and 4c if you wish to fine tune other channels.
- 4d **DECODER**
Push to ▲ or ▼ to select AV1 (Euro AV socket 1) or AV2 (Euro AV socket 2) as output for the video source on this programme position. Store by pressing OK.
Repeat steps 3 and 4d if you wish to preset the AV output of other video sources.

- ⚠** Should you use Auto Tuning afterwards, this setting will be cancelled.




- 5 Press MENU to return to the normal TV screen.

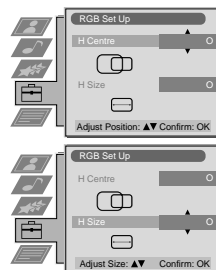


Advanced Presetting

Adjusting the Picture Geometry for an RGB Source


i When connecting an RGB source such as a Sony playstation you may need to readjust the picture geometry.

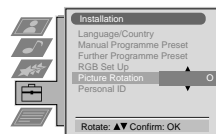
- 1 Select the connected RGB source  by pressing  repeatedly.
- 2 Press MENU. Select the symbol  using \blacktriangledown . Push to \blacktriangleright .
- 3 Select Installation using \blacktriangledown . Push to \blacktriangleright to enter. Select RGB Set Up using \blacktriangledown . Push to \blacktriangleright to enter.
- 4 Select H Centre by pushing to \blacktriangleright . Adjust the centre of the picture (range from -10 to +10) using \blacktriangle or \blacktriangledown . Store by pressing OK.
- 5 Select H Size using \blacktriangledown . Push to \blacktriangleright to enter. Adjust the horizontal coordinates (range from -10 to +10) using \blacktriangle or \blacktriangledown . Store by pressing OK.
- 6 Press MENU to return to the normal TV screen.



Adjusting the Picture Rotation

i Because of the earth magnetism the picture might slant. In this case you can readjust the picture.


- 1 Press MENU. Select the symbol  using \blacktriangledown . Push to \blacktriangleright .
- 2 Select Installation using \blacktriangledown . Push to \blacktriangleright to enter. Select Picture Rotation using \blacktriangledown . Push to \blacktriangleright to enter.
- 3 Adjust the Picture Rotation (adjusting range -5 to +5) by pushing to \blacktriangle or \blacktriangledown . Store by pressing OK.
- 4 Press MENU to return to the normal TV picture.

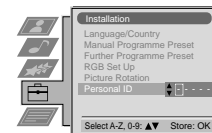


Advanced Presetting


Inputting Your Personal ID

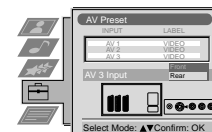
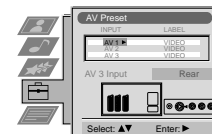
i You can programme your TV with a safety code, so that you can be traced if your TV is stolen and recovered. This code can only be input once! Make sure to write it down in this Instruction Manual.

- 1 Press MENU. Select the symbol  using \blacktriangledown . Push to \blacktriangleright .
- 2 Select Installation using \blacktriangledown . Push to \blacktriangleright to enter. Select Personal ID using \blacktriangledown . Push to \blacktriangleright to enter.
- 3a Select the first of a total of 11 characters (letter, number, + or a blank) by using \blacktriangle or \blacktriangledown .
 - b Push to \blacktriangleright to go to the next character.
 - c Repeat a and b for all characters.
- 4 Store by pressing OK.
- 5 Press MENU to return to the normal TV screen.



Presetting and Labelling of Input Sources

- 1 Press MENU. Select the symbol  using \blacktriangledown . Push to \blacktriangleright .
- 2 Select AV Preset using \blacktriangledown . Push to \blacktriangleright to enter.
- 3 Select the desired AV input (AV 1, 2 or 3) using \blacktriangle or \blacktriangledown . Push to \blacktriangleright to enter.
- i** After each step you have the choice between memorizing (press OK) or going to the next item (push to \blacktriangleright).
- 4 **To label the source:**
 - a Push to \blacktriangleright to select Label.
 - b Select the first character using \blacktriangle or \blacktriangledown . Push to \blacktriangleright to confirm.
 - c Repeat step b to select the other 4 characters.
 - d Store by pressing OK.
- 5 Repeat steps 3 to 4 for the other AV inputs.
- 6 **Selecting the AV3 Input Source:**
 - a Push to \blacktriangledown to select AV3 Input. Push to \blacktriangleright to enter.
 - b Select Front or Rear using \blacktriangle or \blacktriangledown .
 - c Store by pressing OK.
- 7 Press MENU to return to the normal TV screen.





MC-Service

Advanced TV operation

Adjusting Picture and Sound

① Picture and sound are adjusted at the factory. You can however, adjust them individually.

- 1 Press MENU.
Select the symbol  for Picture or  for Sound using ▲ or ▼.
Push to ► to enter.
- 2 The menu Picture or Sound Control is displayed.
- 3 Select the desired item using ▲ or ▼. Push to ► to enter.
- 4 Adjust the selected item using ▲, ▼, ► and ◀. Press OK to store.

① Refer to the tables on this and the following page for more information.

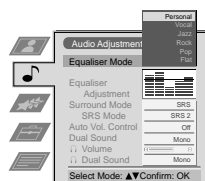
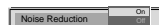
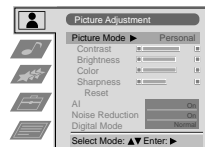
- 4 Repeat steps 2 and 3 to adjust other items.
- 5 Press MENU to return to the normal TV screen.

Picture Control

Item	Effect/Operation
Picture Mode	▼ Live (for live broadcasts) Personal (for individual settings) ▲ Movie (for movie broadcasts)
Contrast	Less ◀ ▶ More
Brightness*	Darker ◀ ▶ Brighter
Colour*	Less ◀ ▶ More
Hue**	Reddish ◀ ▶ Greenish
Sharpness*	Softer ◀ ▶ Sharper
Reset	Resets picture to the factory preset levels
AI (Artificial Intelligence)	▲ Off: normal ▼ On: Automatic optimization of contrast level according to the TV signal
Noise Reduction	▲ Off: Normal ▼ On: Reduces picture noise in case of a weak broadcasting signal
Digital Mode	▼ Normal: 100 Hz Digital+: 100 Hz plus line flicker reduction ▲ Advanced: Digital+ plus smoothing of motions

* Only if Personal is selected in Picture Mode

** Only available for NTSC colour signal (e.g. US video tapes)

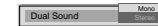
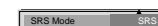
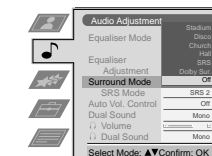
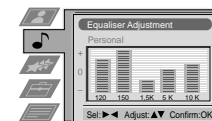


Advanced TV operation

Sound Control (continued)


Item	Effect/Operation
Equaliser adjustment	<p>① You can adjust the mode selected in Equaliser mode by cutting and boosting of 5 selected frequency bands.</p> <p>⚠ Only the changes made in Personal can be stored, the others return to factory setting.</p> <ul style="list-style-type: none"> • Select the desired bar using ► or ◀, adjust using ▲ and ▼. <p>Press OK to store.</p>
Surround mode	<p>▲ Off: Normal Dolby Sur. (Pro Logic or Tru Surround **)</p> <p>① Select when receiving a Dolby broadcast. After the broadcast return to off, otherwise the TV automatically selects Dolby for any stereo broadcast and the sound will be distorted.</p> <p>SRS Hall Church Disco Stadium</p> <p>▼ Stadium</p>
SRS-Mode*	<p>▲ SRS 1 SRS 2 ▼ SRS 3</p>
*only when SRS is selected in Surround mode	
Auto Volume Control	<p>▲ On: volume level of the channels will stay the same independent of the broadcast signal (e.g. in case of advertisements)</p> <p>▼ Off: volume level changes according to the broadcast signal</p>
Dual Sound	<p>For a bilingual broadcast:</p> <p>▼ A for channel 1 ▲ B for channel 2</p> <p>For a stereo broadcast:</p> <p>▼ Mono ▲ Stereo</p>
Headphones	
🔊 Volume	Less ◀ ▶ More
🔊 Dual Sound	<p>For a bilingual broadcast:</p> <p>▼ A for channel 1 ▲ B for channel 2</p> <p>PAP</p> <p>① When PAP is switched on, you can additionally select the PAP sound for the headphones</p>

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




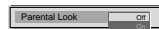
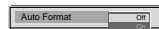
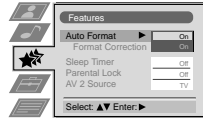
Advanced TV operation

Using the Features Menu





- 1 Press MENU. Select the symbol  using **▼**. Push **►** to enter.
- 2 Select the desired menu item using **▼**. Push **►** to enter.
- 3 Select the desired setting using **▲** or **▼**.
- 4 Store by pressing OK.
- 5 Press MENU to return to the normal TV screen.

Features

Item	Effect/Operation
Auto Format*	▲ On: Automatic selection of the screen format ▼ Off: Normal mode *only for aerial signal
Format Correction*	▲ On: Smart mode is selected automatically for 4:3/ 14:9 broadcasts ▼ Off: 4:3/14:9 is selected *only if Auto Format is on
Sleep Timer	 You can select a time period after which the TV switches itself into standby mode ▲ Off 10 min. 20 min. : ▼ 90 min.
Parental Lock	▼ Off: Normal mode ▲ On: TV can only be switched on out of standby-mode using the Remote Commander, the buttons on the TV do not work.
AV2 Source	 You can select the source to be output from the Scart connector  2/-  2. In this way you can record from this socket while watching another source. ▲ TV audio/video signal from the aerial  AV1 audio/video signal from Scart 1 AV2 audio/video signal from Scart 2 ▼ AV3 audio/video signal from front or rear connectors





Using Multi PIP

- 1  Multi PIP (picture in picture) mode displays a succession of 12 still pictures and a 13th that is live. You can manually select which channel you wish to watch, either full-screen or in the PIP mode.
- 1 Press .
Now 13 programme positions appear on the screen, with the current channel in the centre.
- 2 Press PROGR +/- repeatedly to get the next or the preceding 12 programme positions.
- 3 Use **▲**, **▼**, **◀** and **▶** to move within the 13 displayed channels.
Press OK to select the framed channel.
 The selected channel moves to the centre.
- 4 When the centre channel is framed, press OK to get the channel full screen or press  to return to the normal TV mode.

Advanced TV operation

Using Screen Mode

- 1  When Auto Format in the Features menu is preset to »On« and a format signal is being transmitted, the TV set automatically selects the detected screen format. Screen mode, however, lets you select the screen format of your choice.
- Press  repeatedly to get one of the following formats:

Smart	imitation of wide screen effect for 4:3 broadcasts, parts of the top and bottom of the picture are cut off
4:3	conventional 4:3 aspect ratio, full picture information
14:9	compromise between 4:3 and 16:9 aspect ratios
Zoom	imitation of wide screen effect for letterboxed movies
Wide	for 16:9 broadcasts
- 1 In Zoom and 14:9 modes parts of the top and the bottom of the screen are cut off. Using **▲** and **▼** you can adjust the position of the image onscreen to e.g. read subtitles. Press OK to confirm.



Smart











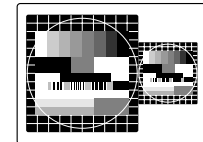
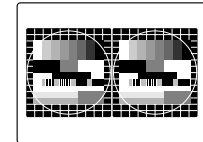
Zoom



Wide


Operating PAP (Picture and Picture)

- 1  PAP divides the screen into two for watching two channels simultaneously (with a video source on one if you want). The sound of the left screen is on the TV loudspeakers, the sound of the right screen is selectable via headphones.
- Switching PAP on and off**
 - Press  once to display the screens in format 4:3 and twice to switch PAP off.
- Selecting a PAP source**
 - 1 Press .
 -  The symbol  appears in the right screen.
- 2 Select the desired source using the number buttons (for a TV channel)  or  (for a video source).
- Swapping screens**
 - Press  to swap the two screens.
- Zooming the screens**
 - Using the joystick buttons **◀** and **▶** you can change the size of the two screens. When you press **▶** repeatedly the right screen gets bigger, while the left screen gets smaller.















Teletext

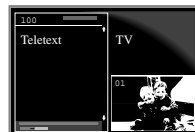
Most TV channels broadcast information via teletext. The index page of the teletext service (usually page 100) gives you information on how to use the service.

-  Make sure to use a TV channel with a strong signal, otherwise there may be Teletext errors.

Direct Access Functions



Switching Teletext on and off

- Select the TV channel which carries the teletext service you want to view.
- Press  once for Picture and Teletext (P&T).
 - The screen is divided in two, with the TV channel in the right corner and the Teletext display on the left.
 - P&T mode: Press / . Press PROG +/ -  to change the channel of the TV screen. Push  or  to change the size of the TV screen. Press /  again to resume normal teletext reception.
 - Press  twice to get Teletext only.
 - Press  three times for Mix mode.
 - The TV broadcast and the Teletext display are overlapped.
- Press  or press  a fourth time to switch teletext off.






Selecting a Teletext Page

Direct Page Selection

- Input the three digits of the page number using the number buttons .
-  If you have made a mistake:
 - Type in any three digits, then re-enter the correct page number.



Page Catching

- Select a teletext page which has several page numbers on it (e.g., the index page).
- Press OK .
- Page Catching is displayed.
 - Select the desired page number using  or  and press OK.
 - The requested page is displayed after some seconds.




Selecting the next or the preceding page

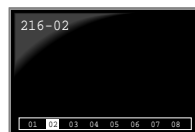
- Press  (Page +) or  (Page -).

Selecting the index page





- Press .

Selecting a subpage

- A teletext page may consist of several subpages. In this case an information line is displayed, showing the number of subpages.
 - Select the mode by pushing . Select the subpage by using  or .







Freezing a Teletext subpage

- Press  or .
- The symbol  is displayed and the subpage is not updated.
- Press  to resume normal teletext reception.

Using Fastext*

*depending on availability of service

- Fastext lets you access pages with one button stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons , , ,  on the Remote Control.
 - Press the coloured button which corresponds to the colour in the colour-coded menu.







Teletext

Using the Teletext Menu






- This TV set has a menu-guided teletext system. When teletext is switched on you can use the joystick buttons to operate the teletext menu.

Select the menu functions as follows:

- Press MENU .
- The Teletext menu is superimposed onto the teletext display.
- Select the teletext function using  or . Push  to enter.





Top/Bottom/Full

- For convenient reading of a Teletext page you can enlarge it.
 - After having selected the function, a sub menu Top  Bottom  Full OK is displayed.
 - Push  to enlarge the upper half of the screen, push  to enlarge the lower half. Press OK to resume the normal size.
 - Press  to resume the normal Teletext operation.


Top:  Bottom:  Full: OK

Text Clear

- After having selected the function, you can watch a TV channel while waiting for a requested Teletext page. As soon as the page is available, the symbol  changes colour.
 - Press  to view the page.



Reveal






- Some teletext pages contain hidden information (e.g., for a quiz), which you can reveal.
 - After having selected the function, the hidden information appears.
 - Press  to resume the normal Teletext operation.

Time Page*

*depending on availability of service

- You can call up a time-coded page - such as an alarm page - at a time specified by you.

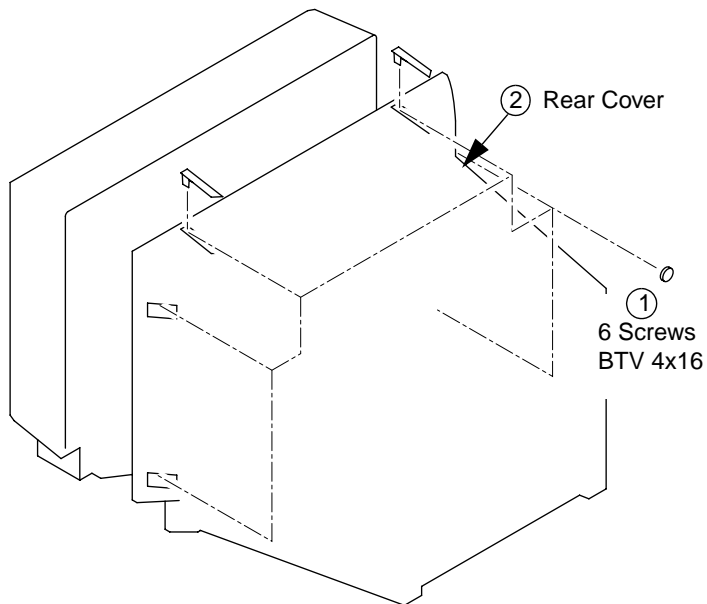
After having selected the function a sub menu is displayed.

- Select On using  or . Push  to enter.
- Enter the three digits of the desired page using the number buttons .
- Enter the four digits of the desired time using the number buttons .
- Press OK to store.
- The time is displayed in the top left-hand corner of the screen. At the requested time the page is displayed.



SECTION 2 DISASSEMBLY

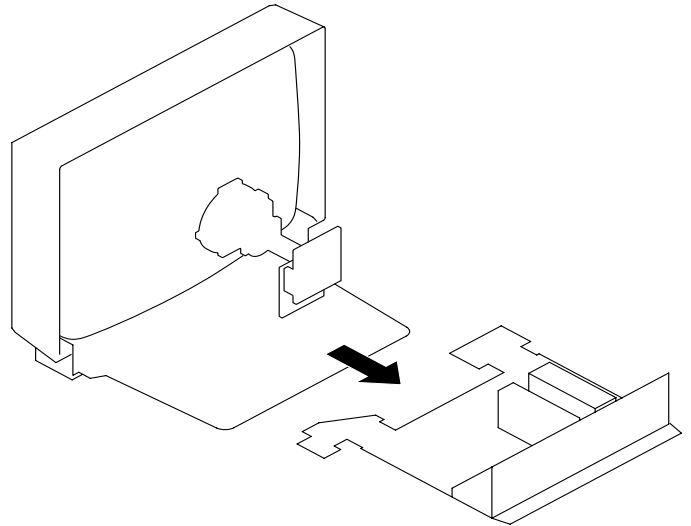
2-1. REAR COVER REMOVAL



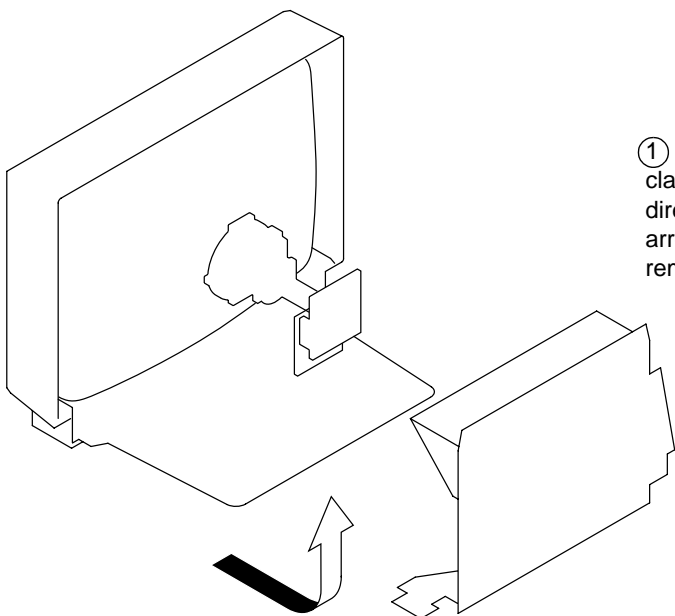
CAUTION:

Take care not to damage the C Board when removing or refitting the rear cover.

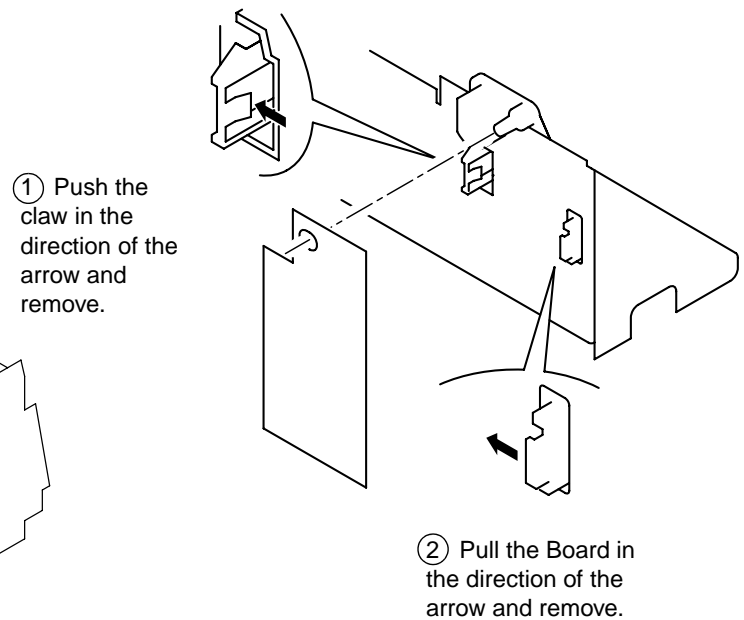
2-2. CHASSIS ASSY REMOVAL



2-3. SERVICE POSITION

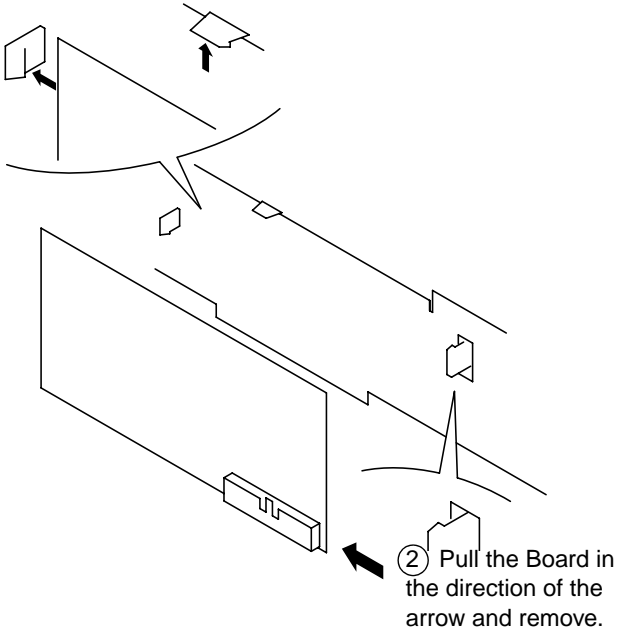


2-4. U BOARD REMOVAL



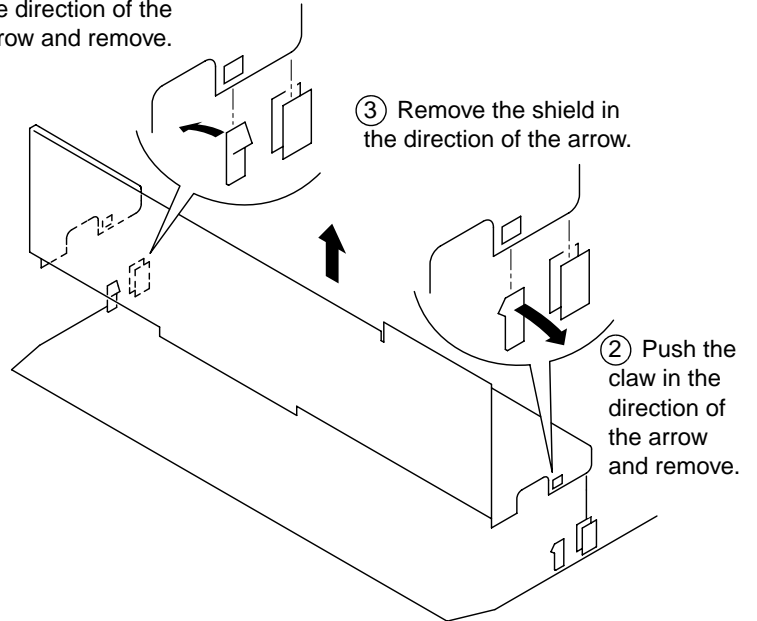
2-5. J BOARD REMOVAL

- ① Push the claw in the direction of the arrow and remove.



2-6. J SHIELD REMOVAL

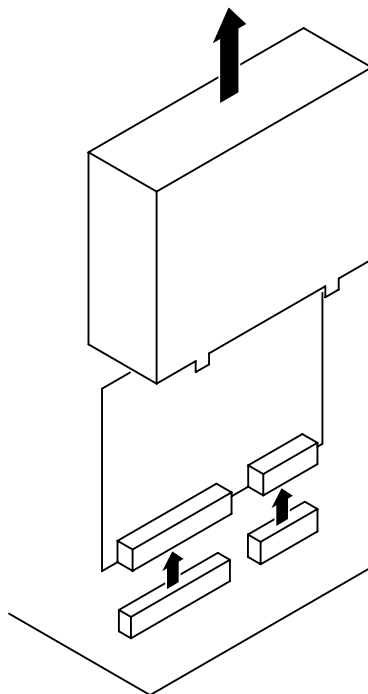
- ① Push the claw in the direction of the arrow and remove.



2-7. B1 BOARD REMOVAL

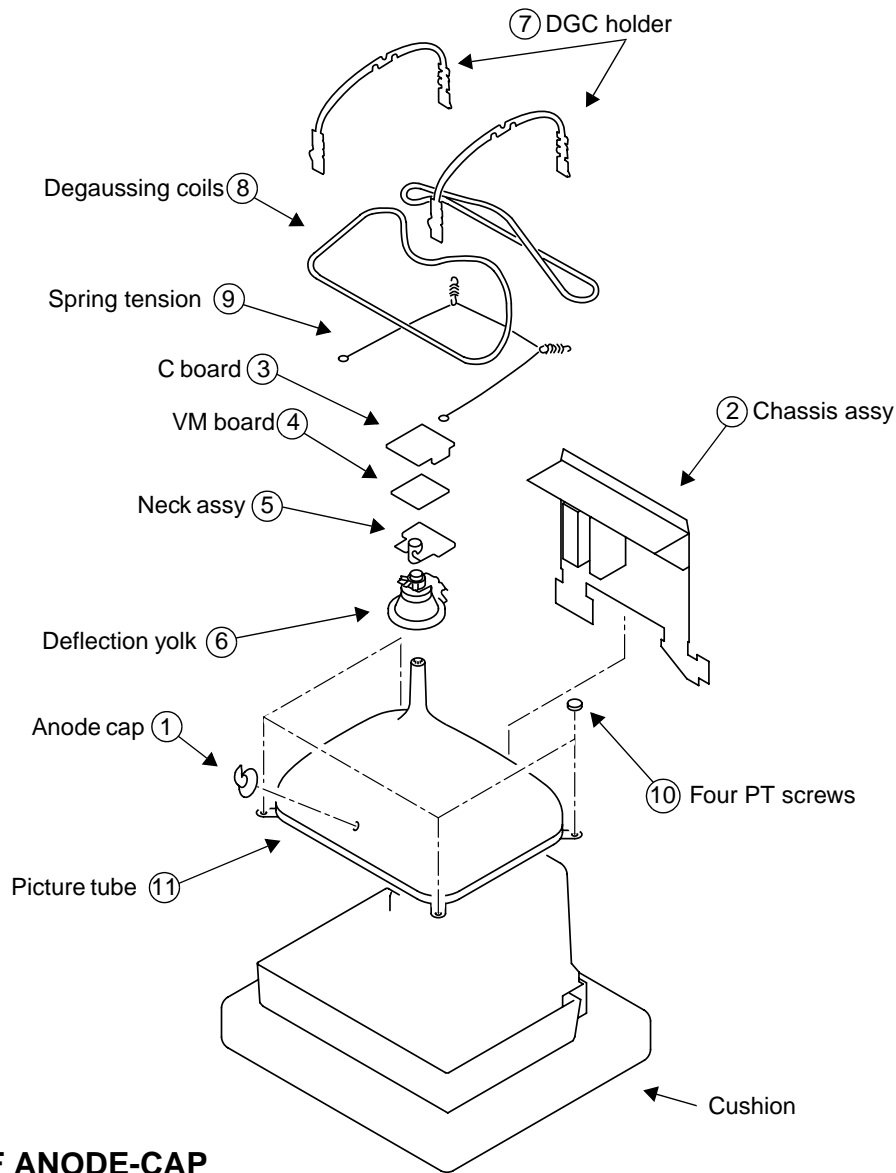
NOTE

All other boards are removed in a similar manner to those shown



MC-Service

2-8. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

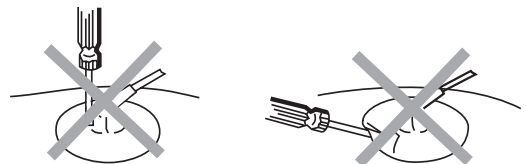
Note : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

* REMOVING PROCEDURES.

-
- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a)
 - ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)
 - ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

• HOW TO HANDLE THE ANODE-CAP

- ① To prevent damaging the surface of the anode-cap do not use sharp materials.
- ② Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
- ③ A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter hook sticks out.



REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed wiring board, the bottom plates fitted to the main chassis bracket require to be removed.

This is performed by cutting the gates with a sharp wire cutter at the locations indicated by arrows.

Note : There are 4 plates fitted to the main bracket and secured by 4 gates.
Only remove the necessary plate to gain access to the printed wiring board.

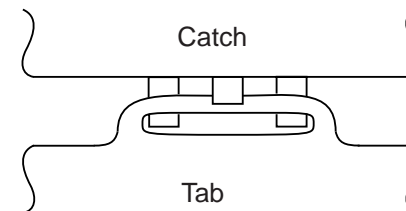
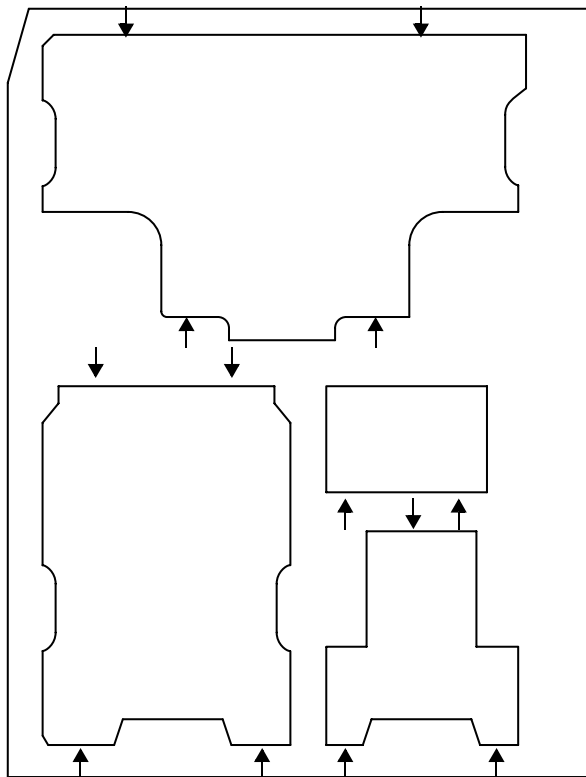


For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from the cut position to allow the tabs to be fitted in the catch positions.



MC-Service

SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

Contrast normal

Brightness normal

Carry out the following adjustments in this order:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. Focus
- 3-4. White balance

Note: Test equipment required

1. Color bar/pattern generator.
2. Degausser.
3. Digital multimeter.
4. Oscilloscope.

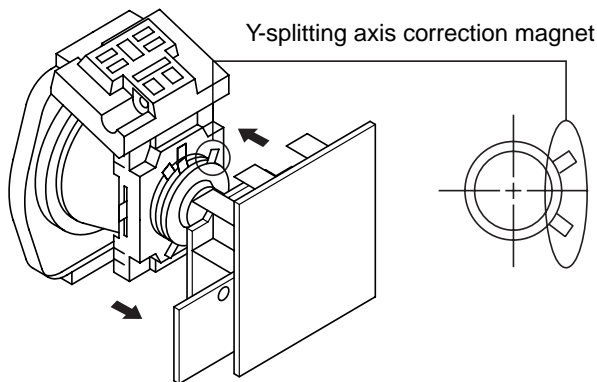
3-1. BEAM LANDING

Preparation:

1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the set's power and degauss with the degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig.3-2.
4. Move the deflection yolk as far forward as is possible.
5. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly.
6. Return the deflection yolk to its original position.



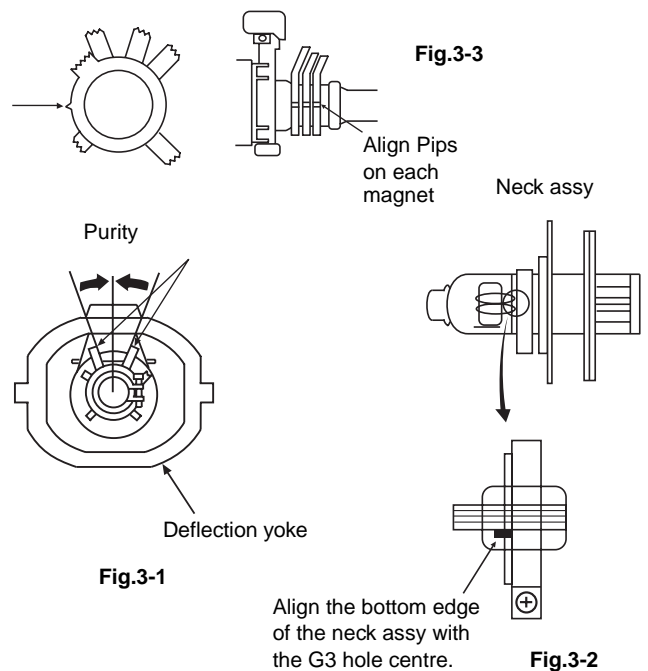
Caution :

High voltages are present on the Deflection yolk terminals - take care when handling the Deflection yolk whilst carrying out adjustments.

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated below [See Fig.3-3].

1. Input an all-white signal from the pattern generator. Maximize the picture setting and adjust the Brightness setting.
2. Rough-adjust the focus and horizontal convergence.
3. Loosen the deflection yolk screws and align the purity adjustment knob to its central position. [See Fig.3-1].
4. Switch from the all-white pattern to an all-green pattern.
5. Move the deflection yolk backwards and adjust with the purity magnet so that the green is at the centre and it aligns symmetrically. [See Fig.3-4].
6. Move the deflection yolk forward and adjust so that the entire screen becomes green.
7. Switch the raster signal to red, then to blue and verify the landing condition.
8. When the position of the deflection yolk has been determined, fasten the deflection yolk with the screw.
9. If the beam does not land correctly in all the corners of the screen, use magnets to correct it. [See Fig.3-5].



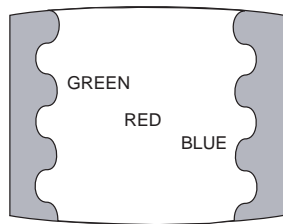


Fig.3-4

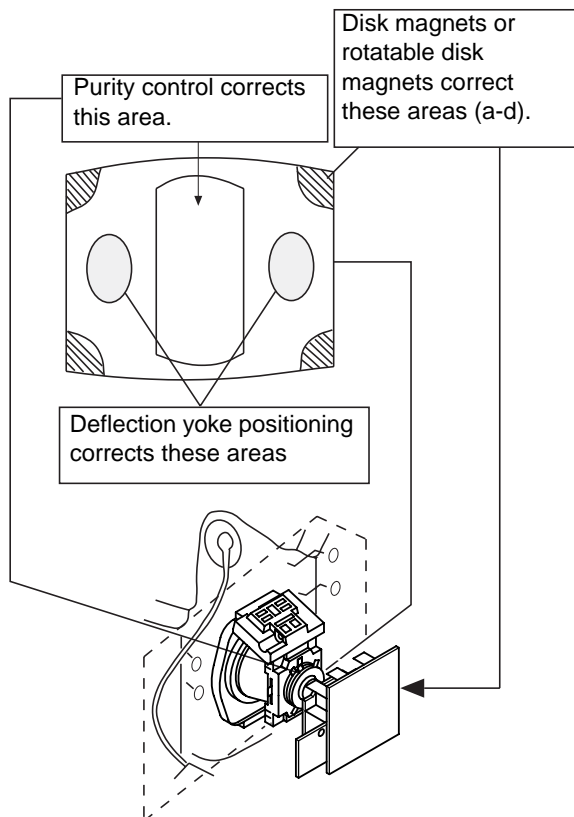
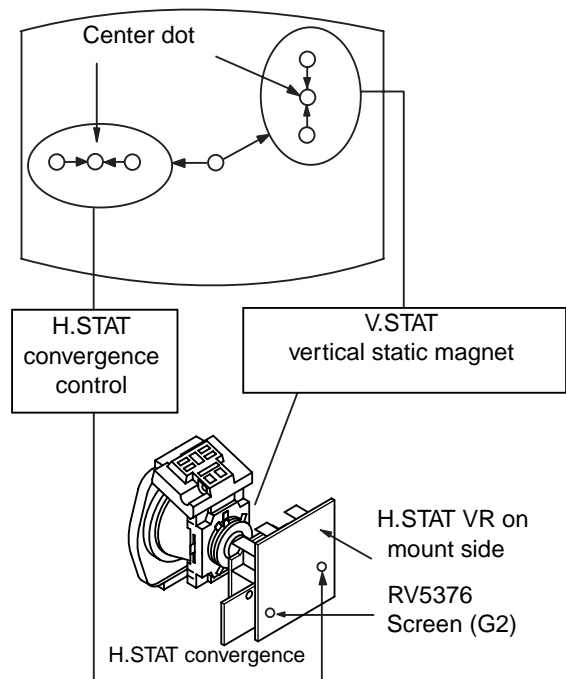


Fig. 3-5

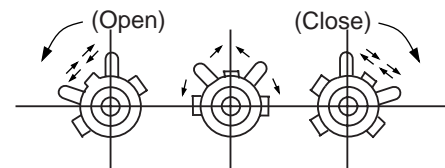
3-2. CONVERGENCE

(1) Screen centre convergence [Static convergence]

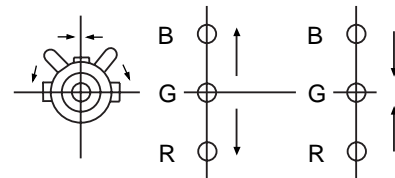
1. Input a dot signal from the pattern generator. Normalize the picture setting.
2. [Moving horizontally], adjust the H.STAT control so that the horizontal red, green and blue dots coincide at the centre of the screen.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.



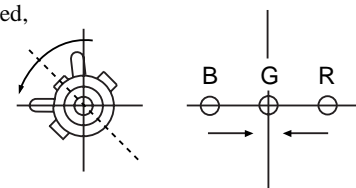
- If the horizontal dots are unable to coincide with the variable range of the H.STAT convergence, adjust together with the V.STAT convergence while tracking.
[Adjust the convergence by tilting the V.STAT convergence or by opening and closing the V.STAT convergence.]



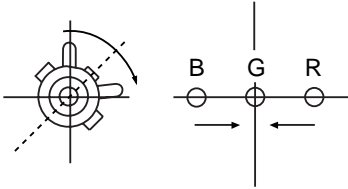
4. Movement of the red, green and blue dots by tilting the V.STAT magnet and by opening or closing the V.STAT magnet.
- a). By opening or closing the V.STAT magnet, the red, green and blue dots move as indicated below.



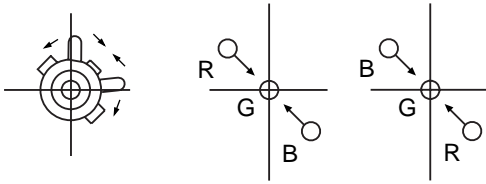
- b). By rotating the V.STAT magnet counter clockwise, the red, green and blue dots move as indicated below.



- c). By rotating the V.STAT magnet clockwise, the red, green and blue dots move in the direction indicated below.



- d). By opening or closing the V.STAT magnet, the red, green and blue dots move in the direction indicated below.

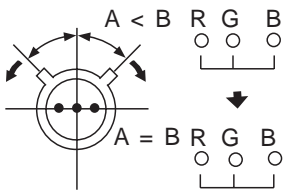


Note : If the blue dot does not coincide with the red and green points correct the points by using the BMC [Hexapole] magnet.

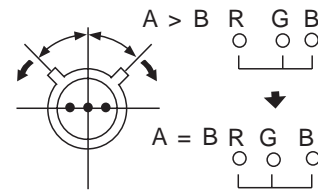
5. Correction for HMC [horizontal mis-convergence] and VMC [vertical mis-convergence] by using the BMC [Hexapole] magnet.

- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.

HMC correction(A)

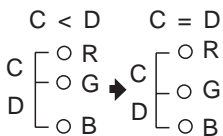
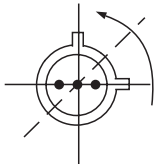


HMC correction(B)

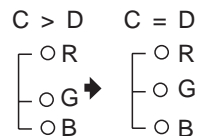
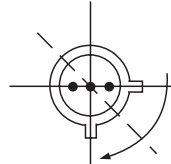


- b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

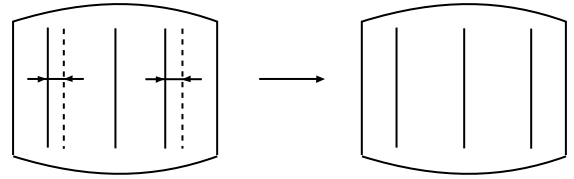
VMC correction(A)



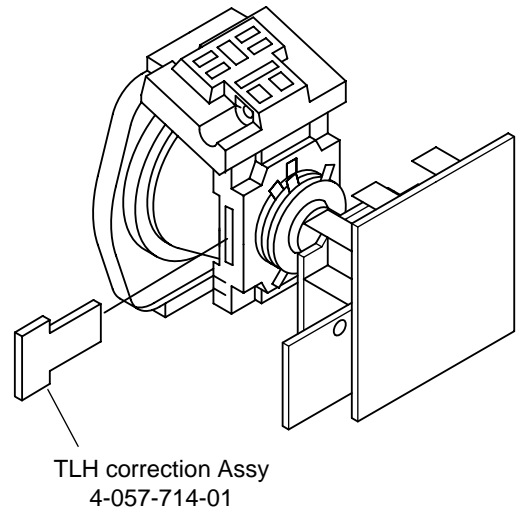
VMC correction(B)



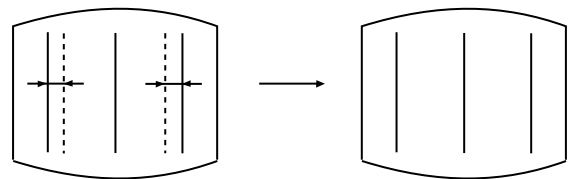
HAMP



7. HTIL correction can be performed by adding a THL correction ASSY to the DY.



HTIL



MC-Service

Layout of each control

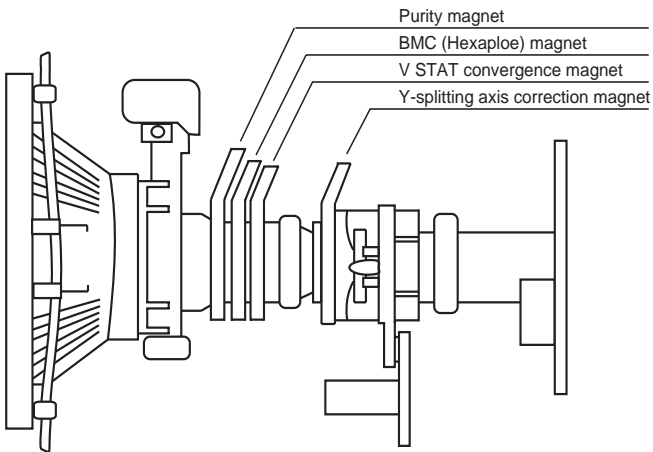
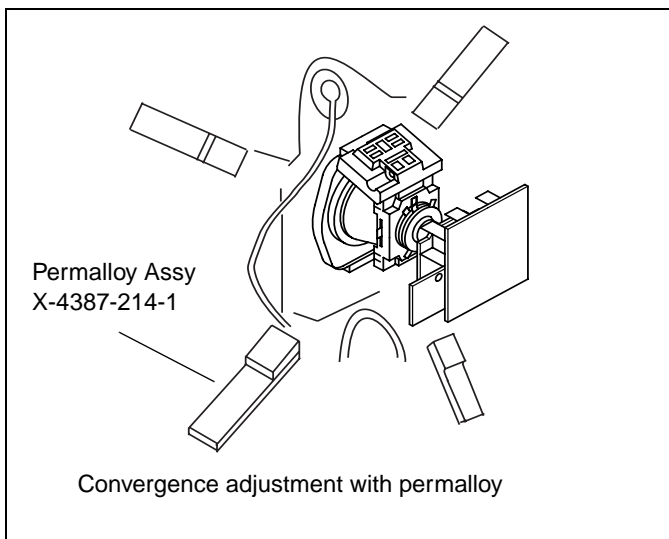
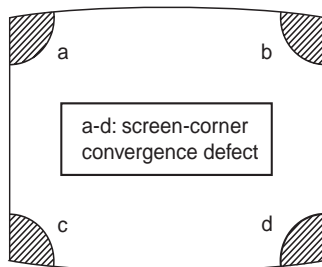


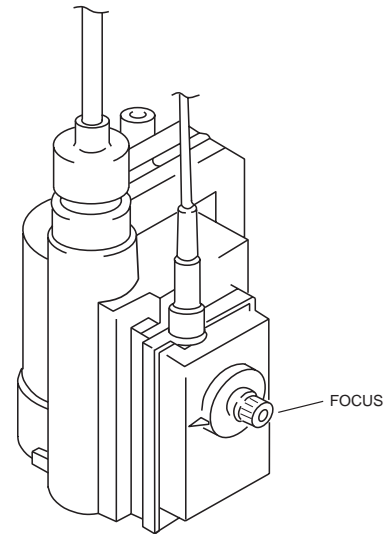
Fig 3-5

Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloys.



3-3. FOCUS

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen.
Bring only the centre area of the screen into focus, the magenta-ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. SCREEN (G2), WHITE BALANCE

[Adjustment in the service mode using the remote commander]

G2 adjustment (RV5376)

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control RV5376 [SCREEN] located on the C Board to the point just before the flyback return lines disappear.

MC-Service

White balance adjustment for TV mode

1. Input an all-white signal.
2. Enter into the Service Mode by pressing 'TEST', 'TEST' and 'MENU' 'MENU' on the Service Commander.
3. Select 'Backend' from the on screen menu display and press 'OK'.
4. The 'Backend' menu will appear on the screen.
5. Set the contrast to MAX.
6. Set the 'R DRIVE' to 41.
7. Adjust the 'G DRIVE' and 'B DRIVE' so that the white balance becomes optimum.
8. Press the 'OK' button to write the data for each item.
9. Set the contrast to MIN.
10. Set the 'R CUT-OFF' to 31.
11. Adjust the 'G CUT-OFF', and 'B CUT-OFF' with the left and right buttons on the remote commander so that the white balance becomes optimum.
12. Press the 'OK' button to write the data for each item.

Backend

No	Descr.	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	OFF	OFF	ON	ON
5	Color-axis	2	0	3	2
6	Contrast	63	0	63	63
7	Limit-Luv	3	0	3	3
8	Hue	31	0	63	31
9	Colour	31	0	63	28
10	CTI -Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	2	0	3	2
13	Sharpness	31	0	63	44
14	LTI-Level	0	0	3	0
15	R-Drive	41	0	63	40
16	BLK-Bottom	0	0	3	0
17	G-Drive	41	0	63	38
18	ABL-TH	0	0	3	0
19	B-Drive	41	0	63	21
20	ABL-Mode	2	0	3	2
21	Sub Bright	31	0	63	32
22	VM-Level	2	0	3	2
23	R-Cutoff	31	0	63	41
24	Preover	2	0	3	2
25	G-Cutoff	31	0	63	45
26	DPIC-Level	2	0	3	2
27	B-Cutoff	31	0	63	48
28	DC-Tran	1	0	3	1
29	Sub-Cont	7	0	15	7
30	LRGB2-Lvl	12	0	15	12
31	P-Abl	15	0	15	15
32	DL-Pass	OFF	OFF	ON	OFF
33	Sharp.Fo	ON	OFF	ON	ON
34	Aging-W	OFF	OFF	ON	OFF
35	Aging-B	OFF	OFF	ON	OFF
36	CB-offset1	7	0	15	7
37	CR-offset1	7	0	15	7
38	CB-offset2	7	0	15	7
39	CR-offset2	7	0	15	7
40	Sub Colour	0	-8	8	-1

MC-Service

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

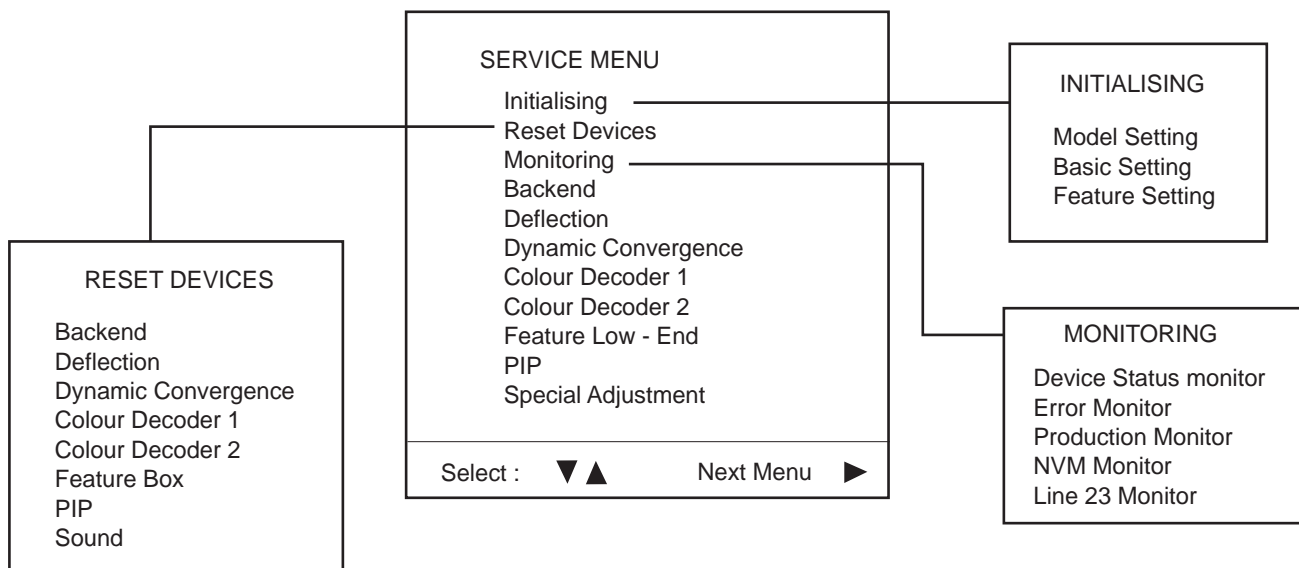
Service adjustments to this model can be performed using the supplied Remote Commander RM-891.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing PROG + (plus) and PROG - (minus) buttons on the top panel.



2. "TT" will appear in the upper right corner of the screen.
3. Press the 'MENU' button twice on the remote commander to obtain the service menu on the screen.



4. Push the joystick up or down on the remote commander to select the adjustment item.
5. Push the right button to proceed to the next menu.
6. If the required adjustment item is 'Deflection', push the down button to move to 'Deflection'.
7. Push the joystick to the right to enter into 'Deflection'.
8. Change the data in order to comply with each standard.

NOTE:

- Before performing any adjustments assure that the correct model has been selected in the Model Setting menu.
- After carrying out the service adjustments, to prevent the customer accessing the Service Menu switch the TV set OFF and then ON.

Model Setting	
1	KV-29FX60A/D/E
2	KV-29FX60B
3	KV-29FX60U
4	KV-29FC60A/D/E
5	KV-29FC60B
6	KV-29FC60K
7	KV-29FC60R
8	KV-29FS60A/D/E
9	KV-29FS60B
10	KV-29FS60K
11	KV-29FS60R
12	KV-28/32FX60A/D/E
13	KV-28/32FX60B
14	KV-28/32FX60K
15	KV-28/32FX60R
16	KV-28/32FX60U
17	KV-29FS60A/D/E
18	KV-29FS60B

Fig.4-1

Basic setting				
No	Descr.	Min	Max	Data
1	Sys.B/G	OFF	ON	ON
2	Sys.D/K	OFF	ON	ON
3	Sys.L	OFF	ON	ON
4	Sys I (UK)	OFF	ON	OFF
5	Sys I (IRL)	OFF	ON	OFF
6	Russian sound	OFF	ON	OFF
7	TXT Nod.option	1	4	3
8	simple PAT	OFF	ON	OFF
9	16:9 CRT	OFF	ON	OFF
10	Sub-woofer	OFF	ON	ON
11	Auto stand-by	OFF	ON	ON
12	comb-filter	OFF	ON	OFF
13	Auto YC det	OFF	ON	ON
14	Auto comb det	OFF	ON	OFF
15	AV2 Available	OFF	ON	ON
16	AV3 Available	OFF	ON	ON
17	AV4 Available	OFF	ON	OFF
18	AV3 Front & rear	OFF	ON	ON
19	SECAM Tape	OFF	ON	OFF

Fig.4-2

NOTE:

The above table is dependant on model, destination & size.

Backend					
No	Descr.	Def	Min	Max	Data
1	R-on	ON	OFF	ON	ON
2	G-on	ON	OFF	ON	ON
3	B-on	ON	OFF	ON	ON
4	D-col	OFF	OFF	ON	ON
5	Color-axis	2	0	3	2
6	Contrast	63	0	63	63
7	Limit-Luv	3	0	3	3
8	Hue	31	0	63	31
9	Colour	31	0	63	28
10	CTI -Level	2	0	3	2
11	Brightness	31	0	63	31
12	Gamma	2	0	3	2
13	Sharpness	31	0	63	44
14	LTI-Level	0	0	3	0
15	R-Drive	41	0	63	40
16	BLK-Bottom	0	0	3	0
17	G-Drive	41	0	63	38
18	ABL-TH	0	0	3	0
19	B-Drive	41	0	63	21
20	ABL-Mode	2	0	3	2
21	Sub Bright	31	0	63	32
22	VM-Level	2	0	3	2
23	R-Cutoff	31	0	63	41
24	Preover	2	0	3	2
25	G-Cutoff	31	0	63	45
26	DPIC-Level	2	0	3	2
27	B-Cutoff	31	0	63	48
28	DC-Tran	1	0	3	1
29	Sub-Cont	7	0	15	7
30	LRGB2-Lvl	12	0	15	12
31	P-Abl	15	0	15	15
32	DL-Pass	OFF	OFF	ON	OFF
33	Sharp.Fo	ON	OFF	ON	ON
34	Aging-W	OFF	OFF	ON	OFF
35	Aging-B	OFF	OFF	ON	OFF
36	CB-offset1	7	0	15	7
37	CR-offset1	7	0	15	7
38	CB-offset2	7	0	15	7
39	CR-offset2	7	0	15	7
40	Sub Colour	0	-8	8	-1

Fig.4-3

MC-Service

Feature setting				
No	Descr.	Min	Max	Data
1	PIP	OFF	ON	ON

Fig.4-4

Colour Decoder 1					
No	Descr.	Def	Min	Max	Data
1	DelayLinMd	OFF	OFF	ON	OFF
2	Gain set	1	0	3	1
3	Y-Delay	7	0	15	7
4	Phase Time	0	0	3	0
5	Vid Ident Md	OFF	OFF	ON	OFF
6	Sync Mode	OFF	OFF	ON	OFF
7	Vid Ident Sw	ON	OFF	ON	ON
8	H-Output	OFF	OFF	ON	OFF
9	Enagating	OFF	OFF	ON	OFF
10	IF Circuit	ON	OFF	ON	ON
11	GP Delay	OFF	OFF	ON	OFF

Fig.4-5

Colour Decoder 2					
No	Descr.	Def	Min	Max	Data
1	DelayLinMd	OFF	OFF	ON	OFF
2	Gain set	1	0	3	1
3	Y-Delay	7	0	15	7
4	Phase Time	0	0	3	0
5	Vid Ident Md	OFF	OFF	ON	OFF
6	Sync Mode	OFF	OFF	ON	OFF
7	Vid Ident Sw	ON	OFF	ON	ON
8	H-Output	OFF	OFF	ON	OFF
9	Enagating	OFF	OFF	ON	OFF
10	IF Circuit	ON	OFF	ON	ON
11	GP Delay	OFF	OFF	ON	OFF

Fig.4-6

Deflection					
No	Descr.	Def	Min	Max	Data
1	V-Size	31	0	63	34
2	V-Position	31	0	63	21
3	V-Comp	1	0	3	1
4	V-Linear	7	0	15	7
5	S-Corr	7	0	15	8
6	H-Size	31	0	63	29
7	EW-DC	OFF	OFF	ON	OFF
8	Pin-Amp	31	0	63	36
9	Up-Cpin	31	0	63	35
10	M-Pin	2	0	3	2
11	Lo-Cpin	31	0	63	37
12	Trapezium	7	0	15	7
13	H-Position	31	0	63	25
14	AFC-Bow	7	0	15	7
15	AFC-Angle	7	0	15	9
16	Up-Vlin	0	0	15	0
17	Lo-Vlin	0	0	15	0

Fig.4-7

Dynamic Convergence					
No	Descr.	Def	Min	Max	Data
1	Range	63	0	63	32
2	H Stat	33	0	63	33
3	H amp L	37	0	63	37
4	H amp R	36	0	63	36
5	Up Y	31	0	63	31
6	Low Y	33	0	63	33
7	Y Up L	30	0	63	30
8	Y Up R	30	0	63	30
9	Y Low L	31	0	63	31
10	Y Low R	30	0	63	30
11	Mbow Up L	31	0	63	31
12	Mbow Up R	32	0	63	32
13	Mbow Low L	32	0	63	32
14	Mbow Low R	32	0	63	32
15	V Stat	32	0	63	32
16	Linearity	128	0	255	104
17	H Centre	32	0	63	32
18	H Trap	32	0	63	32
19	Rotation	0	0	255	0
20	Focus Phase	128	0	255	128

Fig.4-8

Feature Low-End					
No	Descr.	Def	Min	Max	Data
1	F.S.FM	OFF	OFF	ON	OFF
2	G-Mode	OFF	OFF	ON	OFF
3	Picture Pos	0	0	3	0
4	Comp Mode	OFF	OFF	ON	OFF
5	CompSW	OFF	OFF	ON	OFF
6	Acqu.freq	OFF	OFF	ON	OFF
7	Still Pic	OFF	OFF	ON	OFF
8	Init	OFF	OFF	ON	OFF
9	Dis Feature	ON	OFF	ON	ON
10	Dis Vlimit	ON	OFF	ON	ON
11	Scr Fade	0	0	3	0
12	Hwe Delay	20	0	255	20
13	Auto Vshift	OFF	OFF	ON	OFF
14	Vwe Delay	0	0	127	0
15	SFR sw	OFF	OFF	ON	OFF
16	IPQ	0	0	3	0
17	D.Col Dec	OFF	OFF	ON	OFF
18	Blankfield	0	0	15	0
19	P1.5	OFF	OFF	ON	OFF
20	P1.4	OFF	OFF	ON	OFF
21	P1.3	OFF	OFF	ON	OFF
22	P1.2	OFF	OFF	ON	OFF
23	P1.1	OFF	OFF	ON	OFF
24	Set Vdba	OFF	OFF	ON	OFF
25	Set Sidep	ON	OFF	ON	ON
26	Set Hwe	OFF	OFF	ON	OFF
27	Set Clv	OFF	OFF	ON	OFF
28	Set Hddel	OFF	OFF	ON	OFF
29	Set Hblnd	OFF	OFF	ON	OFF
30	Set Hre	ON	OFF	ON	ON
31	Set Hbda	ON	OFF	ON	ON
32	Set Hdav	ON	OFF	ON	ON
33	Vbdasta	0	0	255	0
34	Vsdasto	0	0	255	0
35	Msbhwesto	OFF	OFF	ON	OFF
36	Msbhwesta	OFF	OFF	ON	OFF
37	Msbvbdasto	OFF	OFF	ON	OFF
38	Msbvbdasta	OFF	OFF	ON	OFF
39	Hdavsta	40	0	255	40
40	Hdavsto	255	0	255	255

Feature Low-End(Cont.)					
No	Descr.	Def	Min	Max	Data
41	Hbdasta	223	0	255	223
42	Hbdasto	222	0	255	222
43	Hresta	38	0	255	38
44	Hresto	202	0	255	202
45	Hblindsta	31	0	255	31
46	Hblindsto	30	0	255	30
47	MsbHblindsta	OFF	OFF	ON	OFF
48	MsbHblindsto	OFF	OFF	ON	OFF
49	Msb Hresto	ON	OFF	ON	ON
50	Msb Hresta	OFF	OFF	ON	OFF
51	Msbhbdasta	ON	OFF	ON	ON
52	Msbhbdasto	ON	OFF	ON	ON
53	Msbhdavsto	ON	OFF	ON	ON
54	Msbhdavsta	OFF	OFF	ON	OFF
55	Hddel	0	0	15	0
56	Clvsta	0	0	255	0
57	Clvsto	9	0	255	9
58	Hwesta	44	0	255	44
59	Hwesto	208	0	255	208
60	Ex-Thres	OFF	OFF	ON	OFF
61	Wes	ON	OFF	ON	OFF
62	Demo mode	ON	OFF	ON	OFF
63	Limerick NR	0	0	4	0
64	Nthr	0	0	255	2
65	Wval	200	0	255	200
66	Agc Ych	203	0	255	203
67	Agc Uvch	209	0	255	209
68	Aal-Bypass	OFF	OFF	ON	OFF
69	Stby Fr	OFF	OFF	ON	OFF
70	Lsb Agc-Uv	OFF	OFF	ON	OFF
71	Lsb Agc-Y	OFF	OFF	ON	OFF
72	Vcl cor	0	0	3	0
73	Ucl cor	0	0	3	0
74	Uv cor mode	0	0	3	0
75	Uvcl tau	3	0	3	3
76	Uvcol Lvl	0	0	3	0
77	Fil Mem	OFF	OFF	ON	OFF
78	Overl Thr	1	0	3	1
79	Y delay f	4	0	7	4
80	Dcti pdxsel	ON	OFF	ON	ON

Fig.4-9

Feature Low-End (Cont.)					
No	Descr.	Def	Min	Max	Data
81	Dcti Thres	0	0	15	0
82	Dcti Gain	0	0	7	0
83	Dcti Super	ON	OFF	ON	ON
84	Dcti Fil	ON	OFF	ON	ON
85	Dcti Prot	ON	OFF	ON	ON
86	Dcti Sep	ON	OFF	ON	ON
87	Dcti Limit	2	0	3	2
88	Peak Beta	0	0	7	0
89	Peak Alpha	2	0	7	2
90	Peak Neg g	0	0	3	0
91	Peak Delta	0	0	3	0
92	Peak Tau	0	0	7	0
93	Peak Corth	0	0	15	0
94	Overlay V	0	0	15	0
95	Overlay U	0	0	15	0
96	Overlay Y	10	0	255	10
97	Sidep sta	240	0	255	240
98	Sidep sto	36	0	255	36
99	Y delay B	7	0	7	7
100	Invert UV	ON	OFF	ON	ON
101	Output Range	ON	OFF	ON	ON
102	Sidep Fdel	0	0	3	0

PIP					
No	Descr.	Def	Min	Max	Data
1	Freeze	OFF	OFF	ON	OFF
2	Frame	ON	OFF	ON	ON
3	Pipon	ON	OFF	ON	OFF
4	Seldel	1	0	15	1
5	Mixdis	ON	OFF	ON	ON
6	H-Poshi	0	0	3	0
7	H-Pos	137	0	255	137
8	V-Pos	59	0	255	59
9	Y-Delay	0	0	7	0
10	V-Dec	OFF	OFF	ON	OFF
11	H-Dec	OFF	OFF	ON	OFF
12	Insvh	ON	OFF	ON	ON
13	Chrins	ON	OFF	ON	ON
14	Pmod	0	0	3	0
15	Imod	0	0	3	0
16	Clisw	ON	OFF	ON	ON
17	H side	4	0	15	4
18	Vsiisq	OFF	OFF	ON	OFF
19	Vsidel	0	0	31	0
20	Parasynd	ON	OFF	ON	ON
21	Vspisq	OFF	OFF	ON	OFF
22	Vspdel	10	0	31	10
23	Con	1	0	15	1
24	Fry	8	0	15	8
25	Frv	3	0	15	3
26	Fru	4	0	15	4
27	Sel Down	OFF	OFF	ON	OFF
28	Frwidv	1	0	3	1
29	Frwidh	2	0	7	2
30	Mat	4	0	7	4
31	Daconst	OFF	OFF	ON	OFF
32	Plltc	1	0	3	1
33	Dacontle	OFF	OFF	ON	OFF
34	Left	83	0	255	83
35	RightHi	1	0	3	1
36	Right	192	0	255	192
37	Up	46	0	255	46
38	Down	189	0	255	189

Fig.4-10

MC-Service

Sound					
No	Descr.	Def	Min	Max	Data
1	Ref.Level	40	0	20	40
2	Auto-gain	ON	OFF	ON	ON
3	Ana-in	0	0	1	0
4	Corr-mute	ON	OFF	ON	ON
5	Clock out	ON	OFF	ON	ON
6	AM-gain	ON	OFF	ON	ON
7	Clip mode	0	0	2	0
8	SCART1 Vol	79	0	127	79
9	SCART2 Vol	79	0	127	79
10	SCART Pr	27	0	127	27
11	Izs1-pr	16	0	127	16
12	Izs2-pr	16	0	127	16
13	FM pr	27	0	127	27
14	BG Nic-pr	53	0	127	53
15	L Nic-pr	59	0	127	59
16	DK Nic-pr	53	0	127	53
17	I Nic-pr	97	0	127	97
18	Irl Nic-pr	97	0	127	97
19	AVC-Decay	2	0	8	2
20	Subw-vol	0	0	-127	0
21	Subw-freq	20	5	40	20
22	Subw-Hpuss	OFF	OFF	ON	OFF
23	Spat-stre	127	0	-1	127
24	Spat-Coeff	0	0	8	0
25	Bass offs	0	-3	3	0
26	Treble offs	0	-3	3	0
27	Loudn offs	0	0	9	0
28	Hp-voloffs	-2	-5	5	-2
29	M-S Limit	30	-128	127	30
30	M-B Limit	-30	-128	127	-30
31	S-M Limit	12	-128	127	12
32	S-B Limit	-20	-128	127	-20
33	B-M Limit	-12	-128	127	-12
34	B-S Limit	20	-128	127	20
35	Err.Max	40	0	255	40
36	Err.Min	14	0	255	18

Fig.4-11

Special Adjustment				
No	Descr.	Min	Max	Data
1	RGB Level	0	7	0
2	RGB Gain	0	31	9
3	RGB PatLevel	0	7	7
4	RGB Patgain	0	31	31
5	RGB H-position	-10	10	-1
6	Extra Fw	0	255	255
7	EPG Chks Check	OFF	ON	ON
8	Slicer High	OFF	ON	ON
9	FCW Wide	OFF	ON	ON
10	High PII	OFF	ON	OFF
11	Panic offset	0	2	0
12	Wide Mute	OFF	ON	ON

Fig.4-12

MC-Service

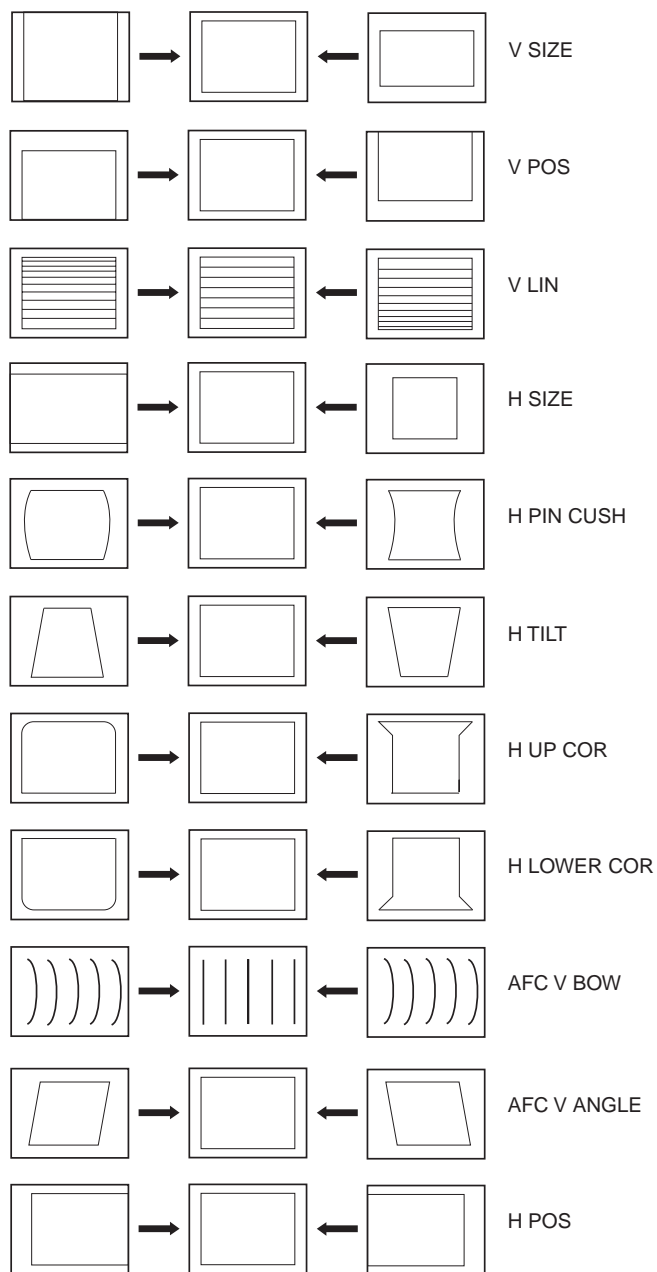
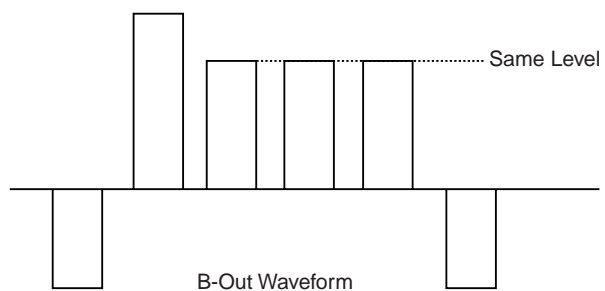
DEFLECTION SYSTEM ADJUSTMENT

1. Enter into the service mode and select 'Deflection '. The 'Deflect ' adjustment menu will be displayed.
2. Select and adjust each item to obtain the optimum image.

4-2.VOLUME ELECTRICAL ADJUSTMENTS

Sub Colour Adjustment

1. Input a PAL colour bar signal.
2. Connect an oscilloscope to CN5400 pin 5 on the C board.
3. Enter into the 'SERVICE MODE'.
4. Choose 'Backend'.
5. Adjust Sub Colour data so that the right sides of the waveforms are of equal height.



4-3. TEST MODE 2:

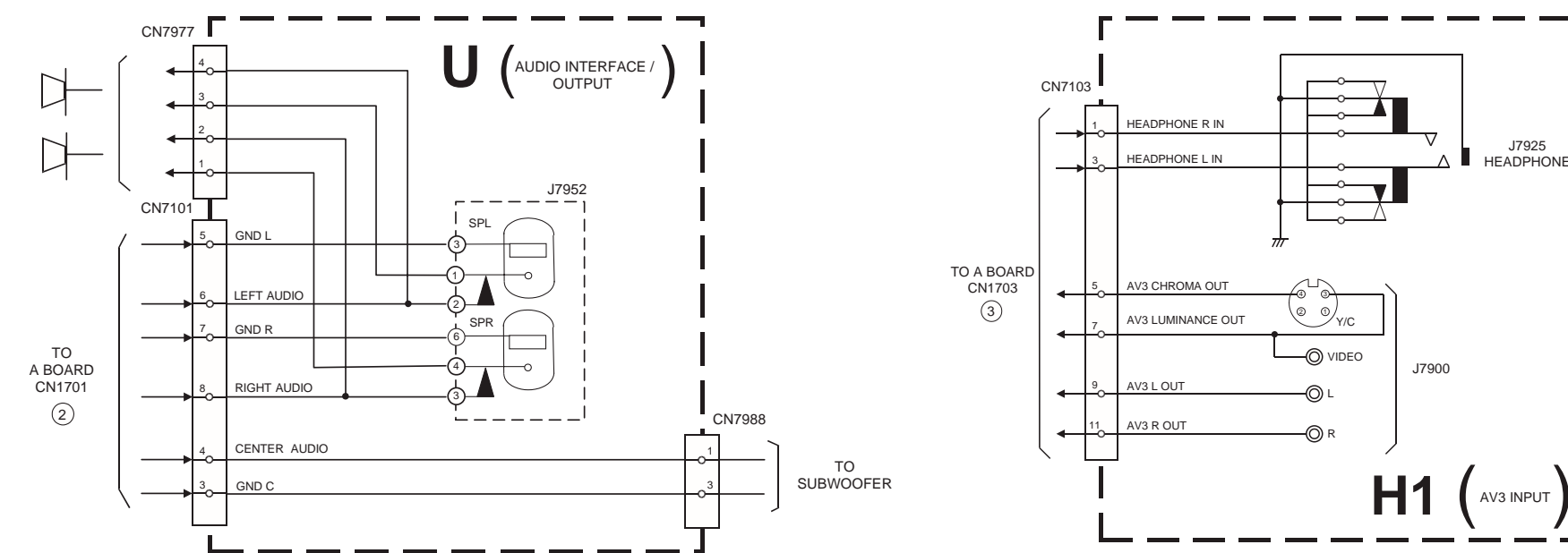
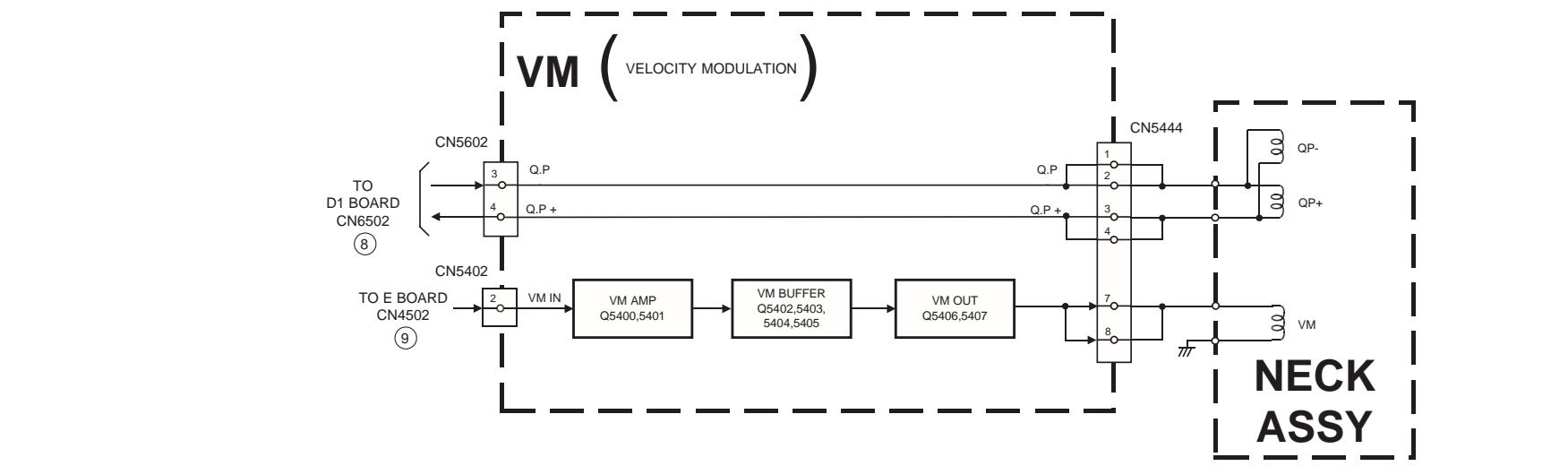
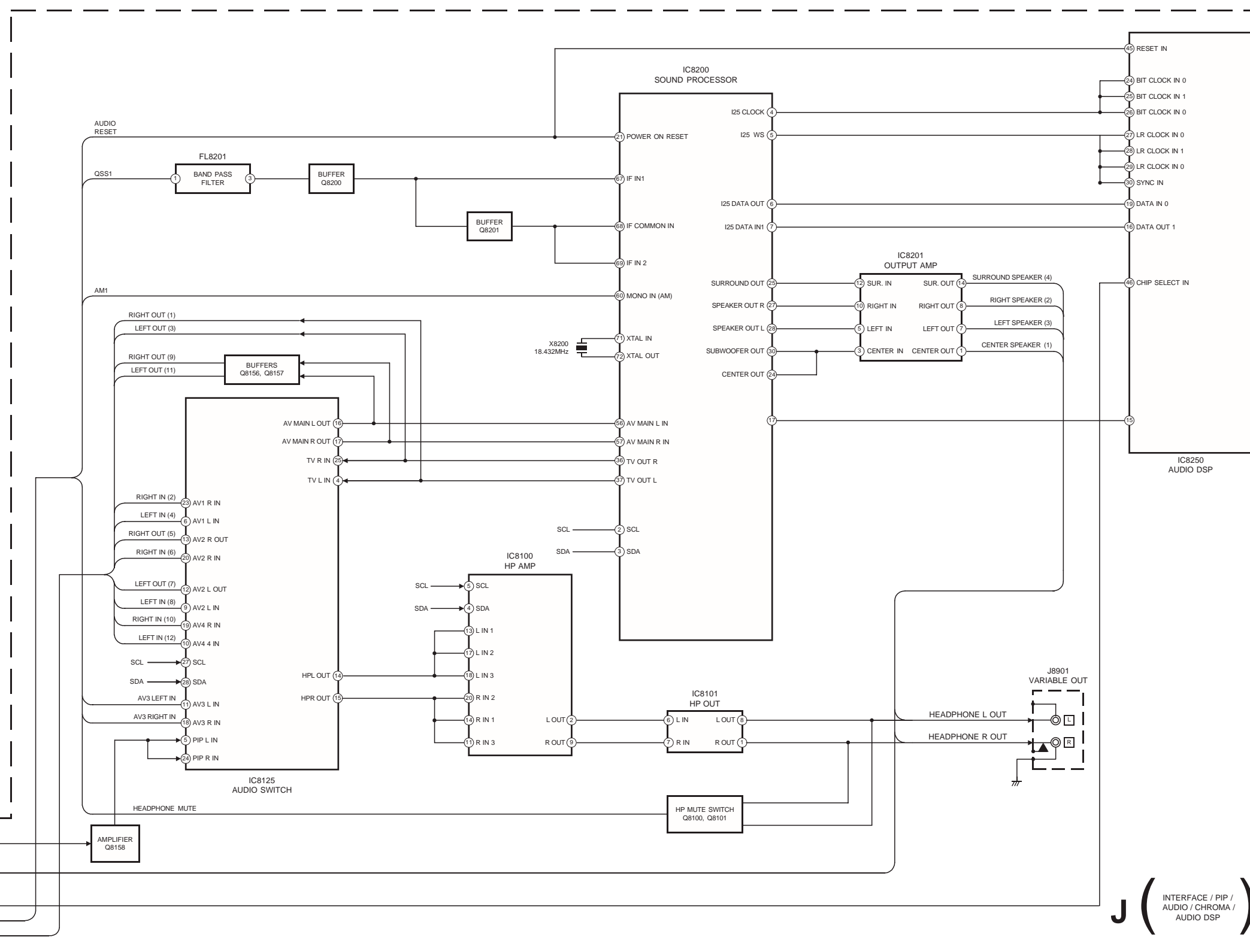
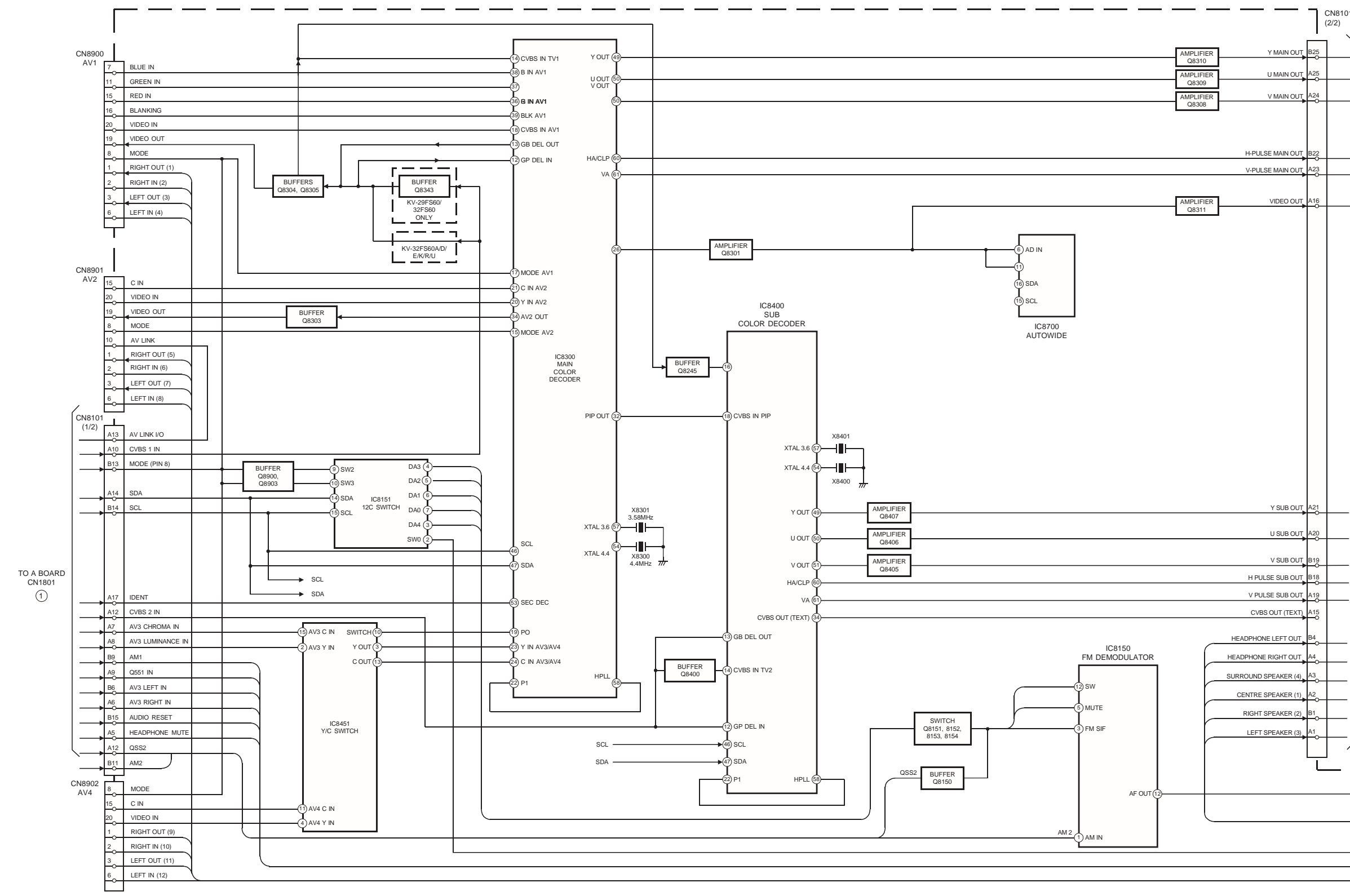
Is available by pressing 'TEST' button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0, 10, 20 ... twice or switch the TV set into Stand-by Mode. Pressing the two Local Control buttons (+ and -) during Power ON will also switch into 'TT' mode.

In 'TT' mode, it is possible to remove the Menu from the screen by pressing the Speaker Off button once. Pressing the Speaker OFF button a second time will cause the menu to reappear. The Function is kept even when the menu is not displayed !!.

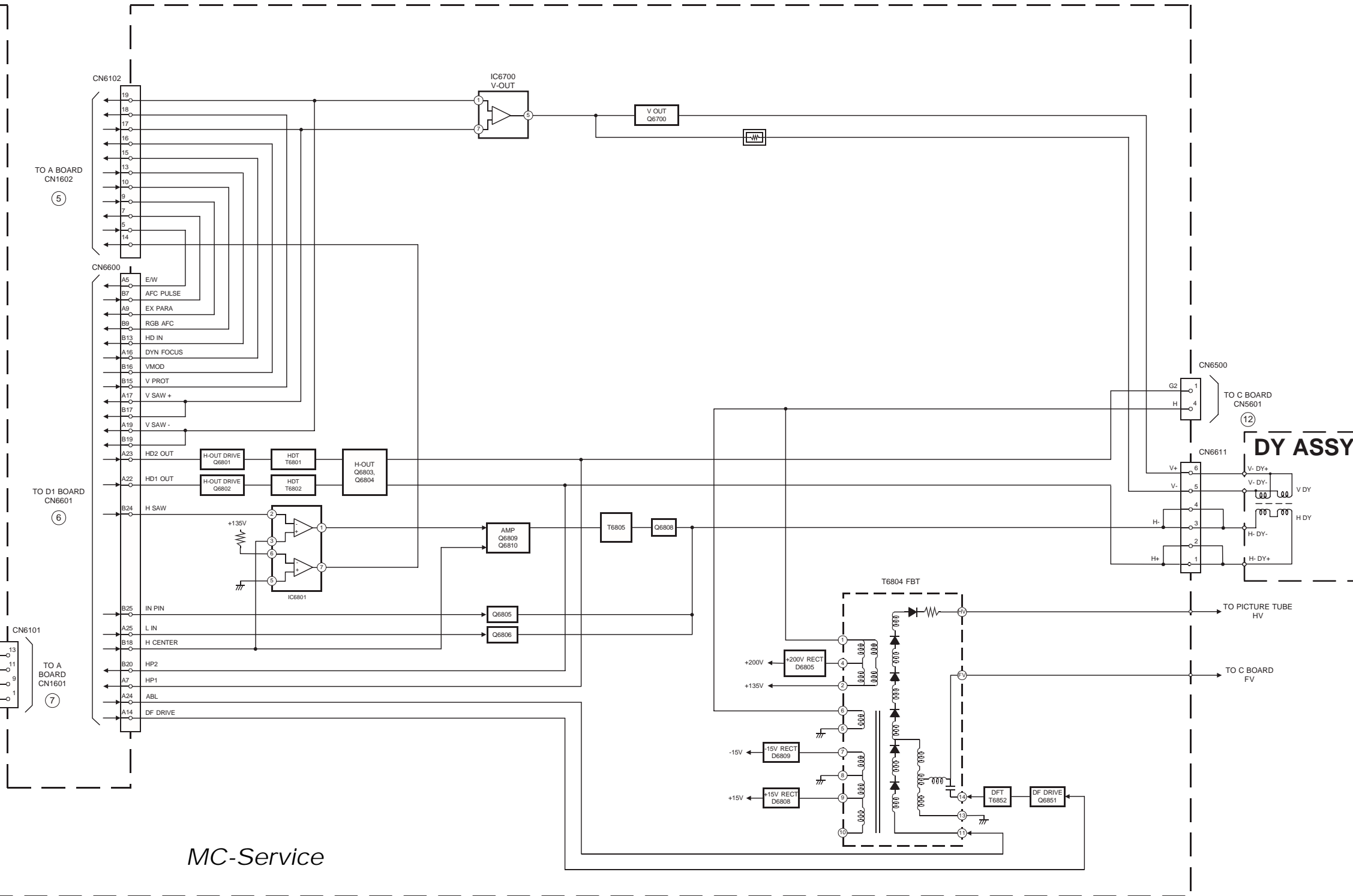
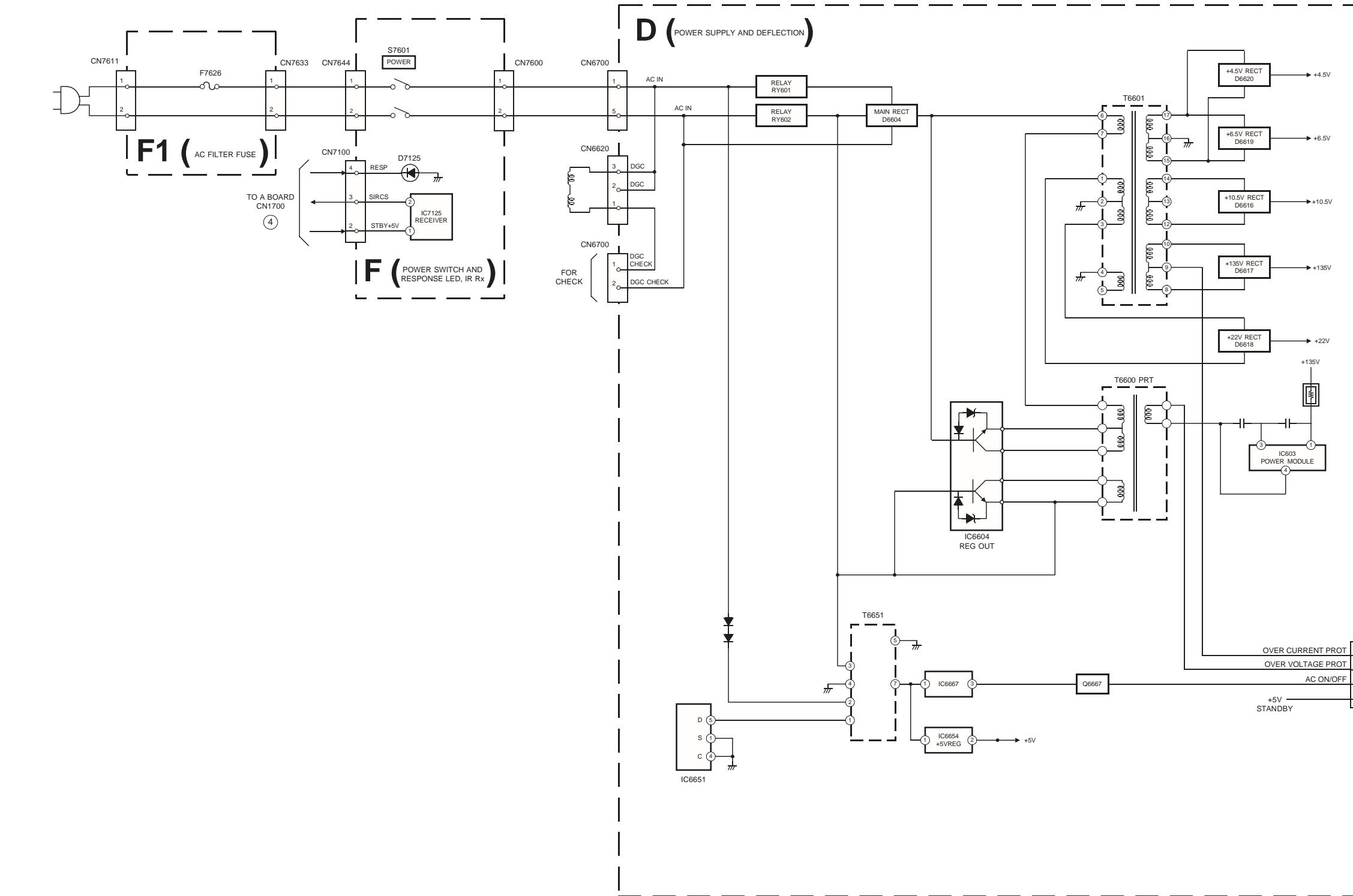
00	Switch back to normal mode - 'TT' mode off
01	Set picture maximum
02	Set picture minimum
03	Set speaker/headphone Volume to 30%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing Mode
08	Shipping Condition
09	Language Reset
10	No function
11	Sub picture adjustment
12	Sub colour adjustment
13	Display software version and TV set configuration
14	Production Info Display
15	Picture Rotation
16	Picture level 50%
17	Audio mute on
18	No function
19	Sub brightness adjustment
20	See 'TT10'
21	Destination A includes text settings, display TV status
22	Destination L includes text settings, display TV status
23	Destination E includes text settings, display TV status
24	Destination U includes text settings, display TV status
25	Destination D includes text settings, display TV status
26	Destination B includes text settings, display TV status
27	Destination K includes text settings, display TV status
28	Destination R includes text settings, display TV status
30	See 'TT10'
31	Geometry Adjustment 1
32	Geometry Adjustment 2
33	Error monitor
34	No function
35	CRT 4:3 < > 16:9 ; Display TV status
36	Line 23 detection switch
37	Velocity Modulation (VM) test
38	No function
39	No function
40	See 'TT10'

41	Screen mode check
42	Re initialise geometry
43	No function
44	No function
45	No function
46	Reserved for dealer commander
47	Re initialise NVM
48	Set NVM as non virgin
49	Set NVM as virgin
50	See 'TT10'
51	Set Dolby volume to 90%
52	Dolby on left speaker only
53	Dolby on right speaker only
54	Dolby on left centre only
55	Dolby on surround speaker only
56 - 59	No function
60	See 'TT10'
61	Service mode
62	Production mode
65	Reset error codes
68	Ignore errors on
69	Ignore errors off
70	See 'TT10'
71 - 72	No function
73	Clear programs
74 - 79	No function
80	See 'TT10'
81	PAP H adjustment left image
82	PAP H adjustment right image
83 - 86	No function
87	Personal ID reset
88	Parental Lock off
89	No function
90	See 'TT10'

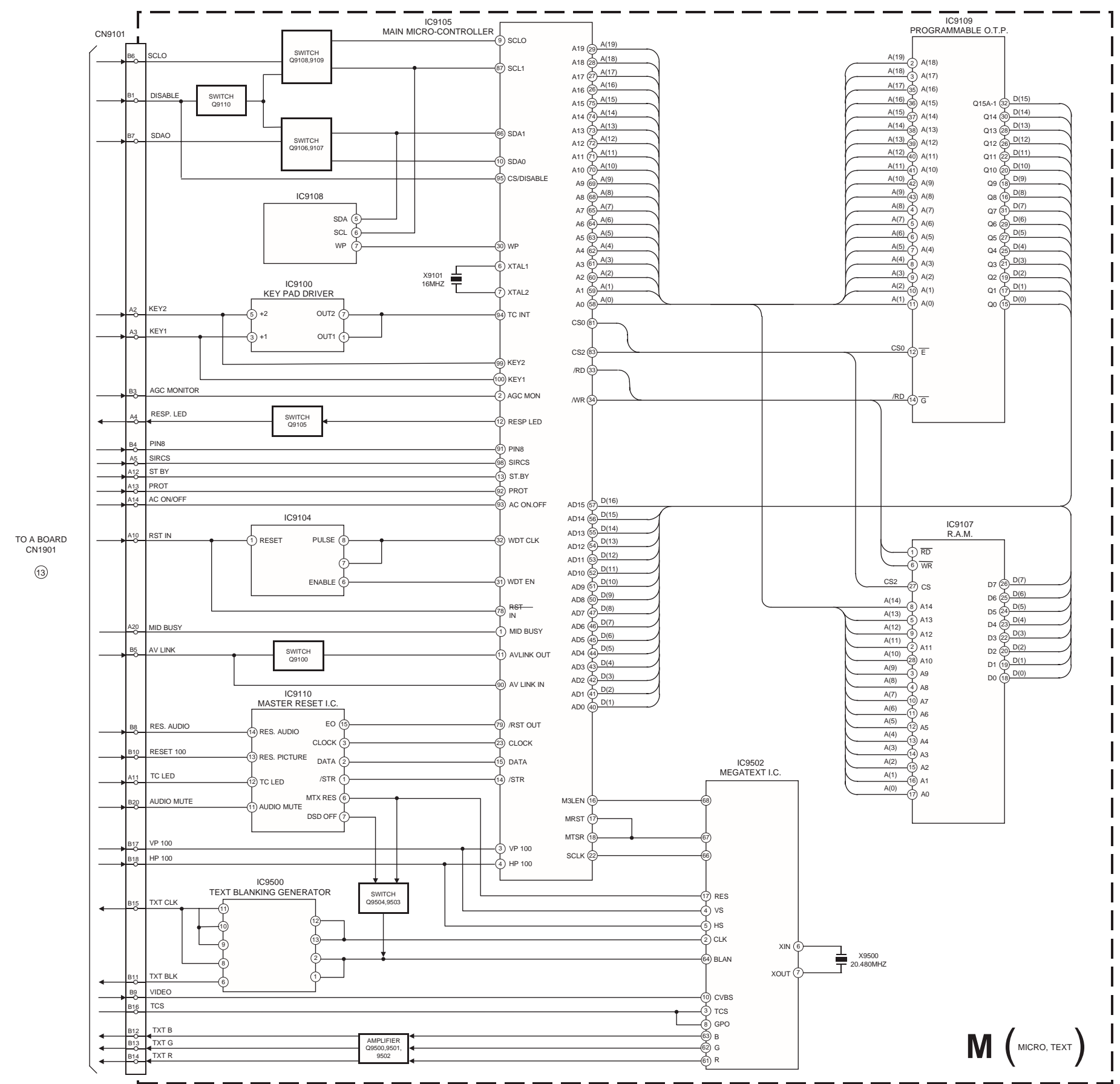
5-1 BLOCK DIAGRAMS (1)



BLOCK DIAGRAMS (2)

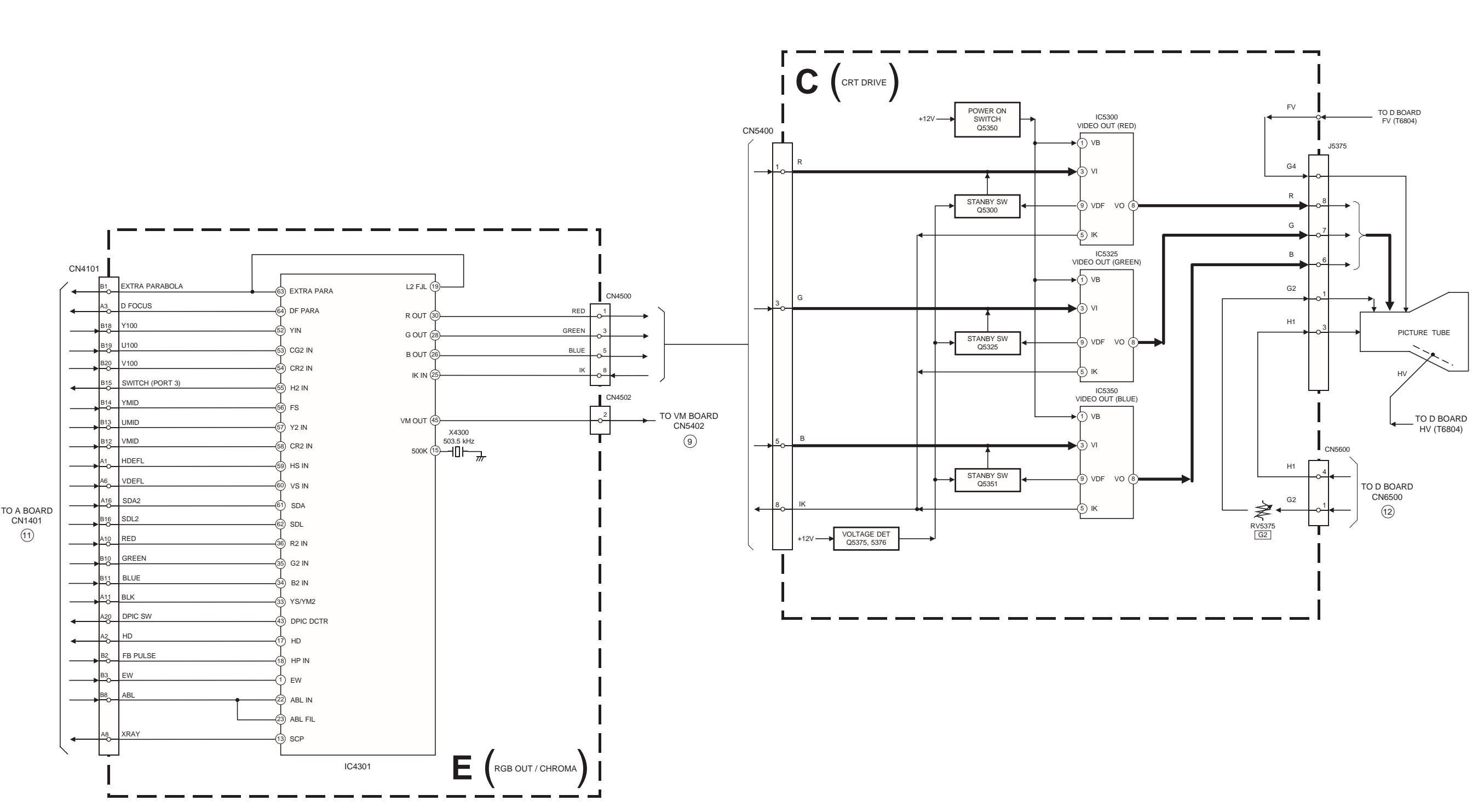
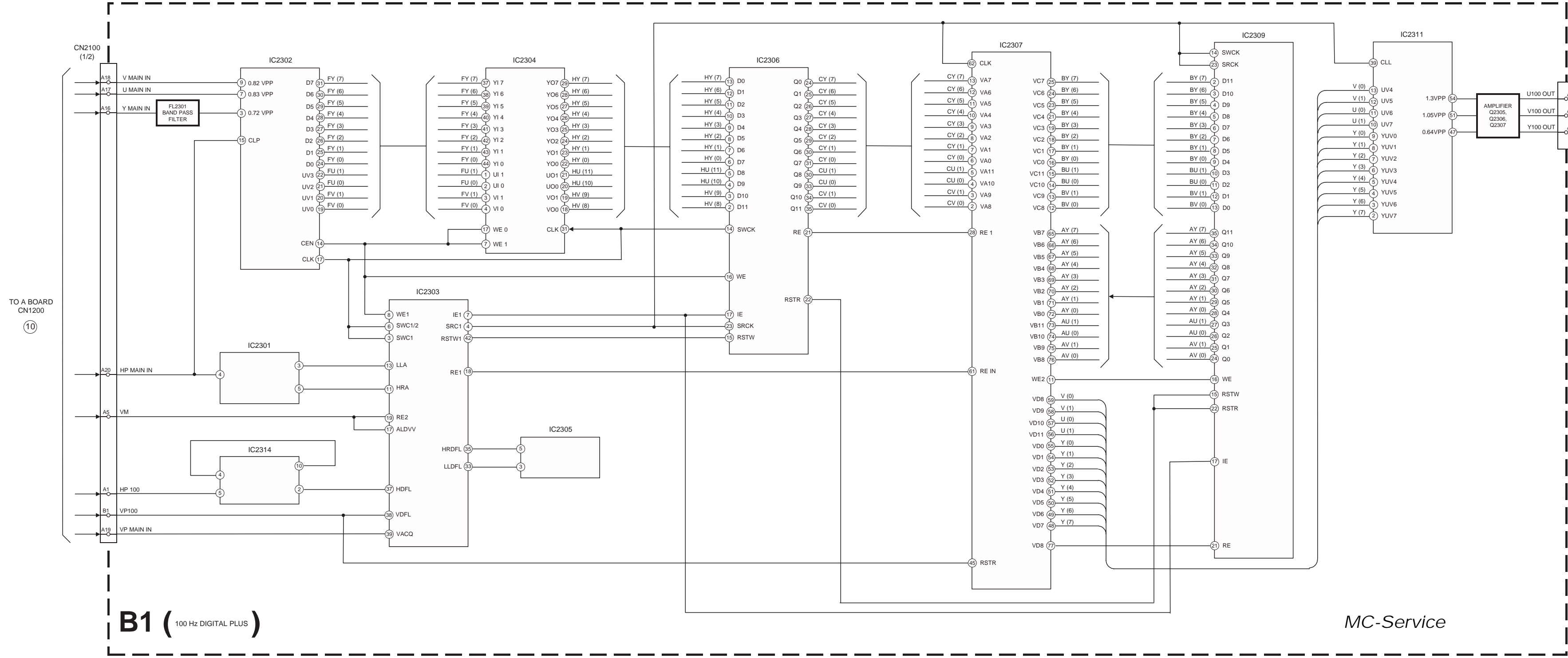


MC-Service

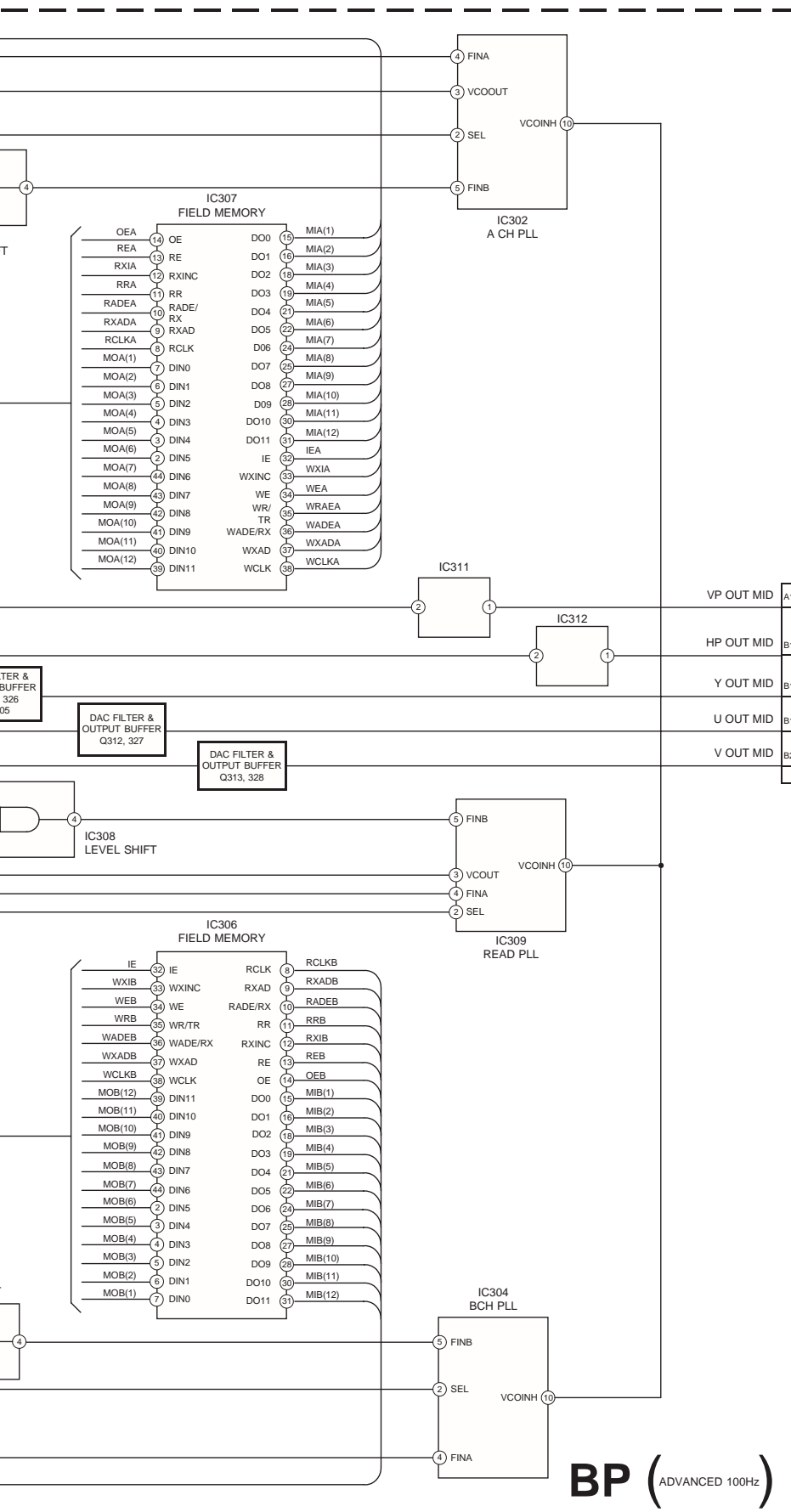
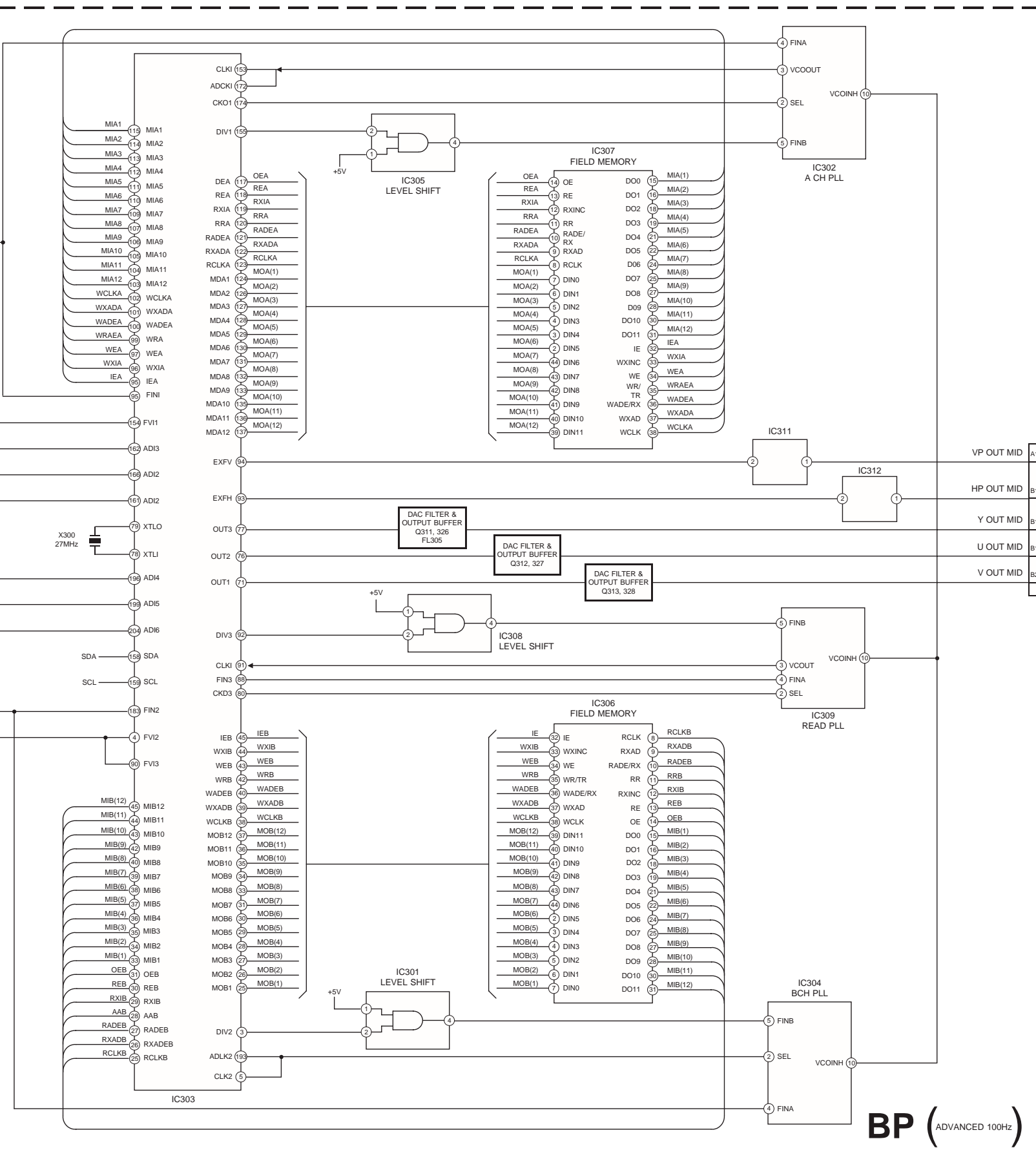
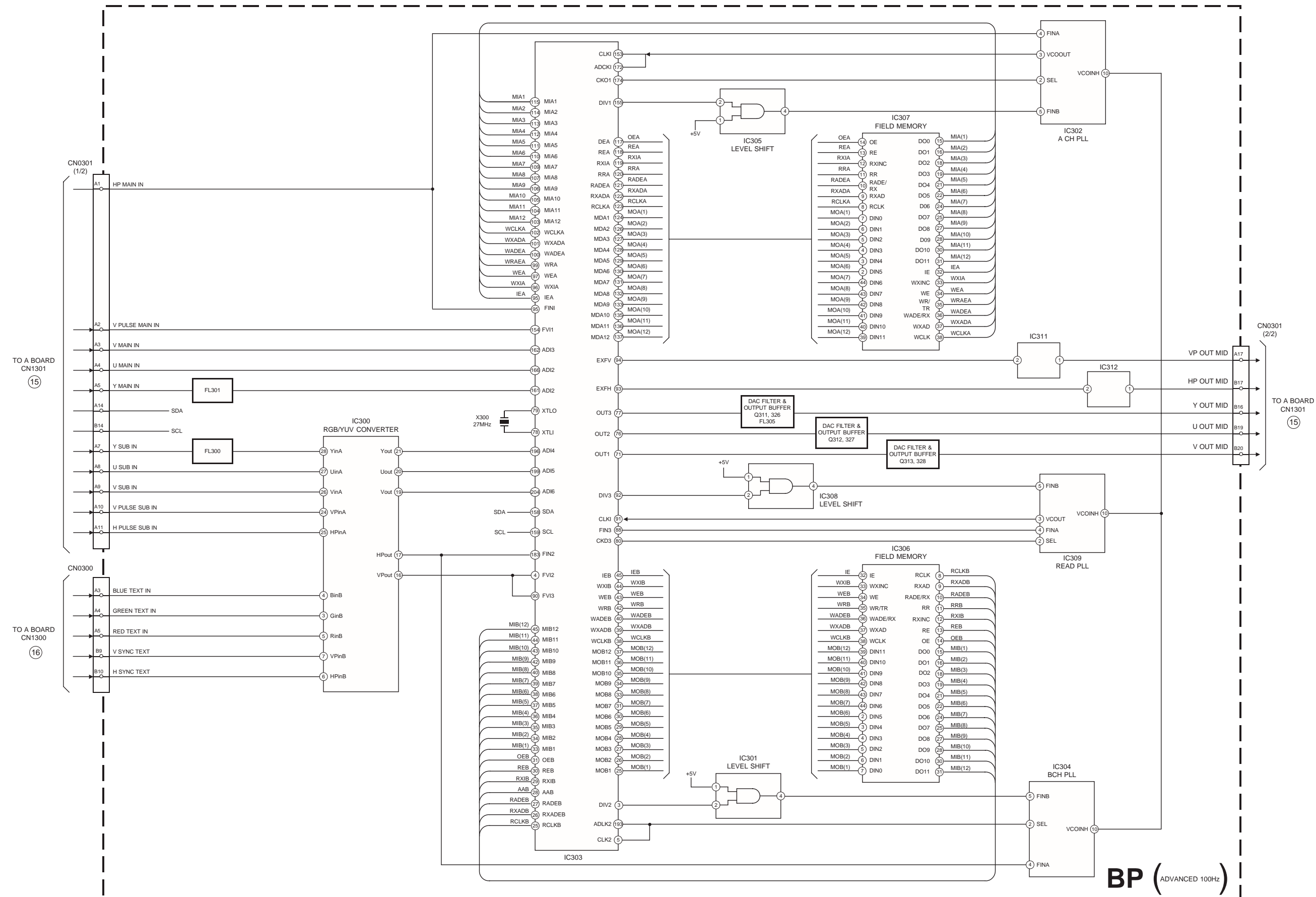
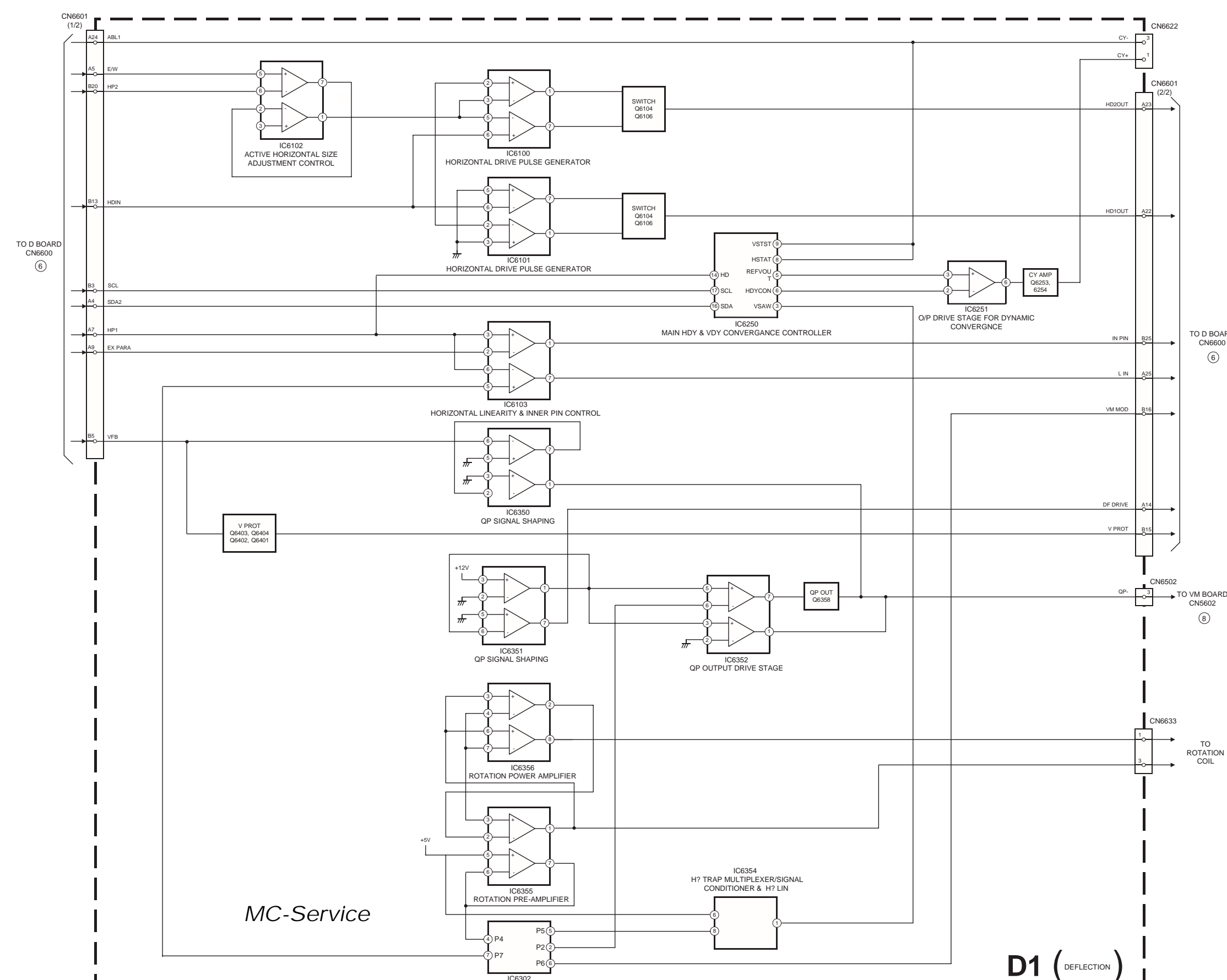
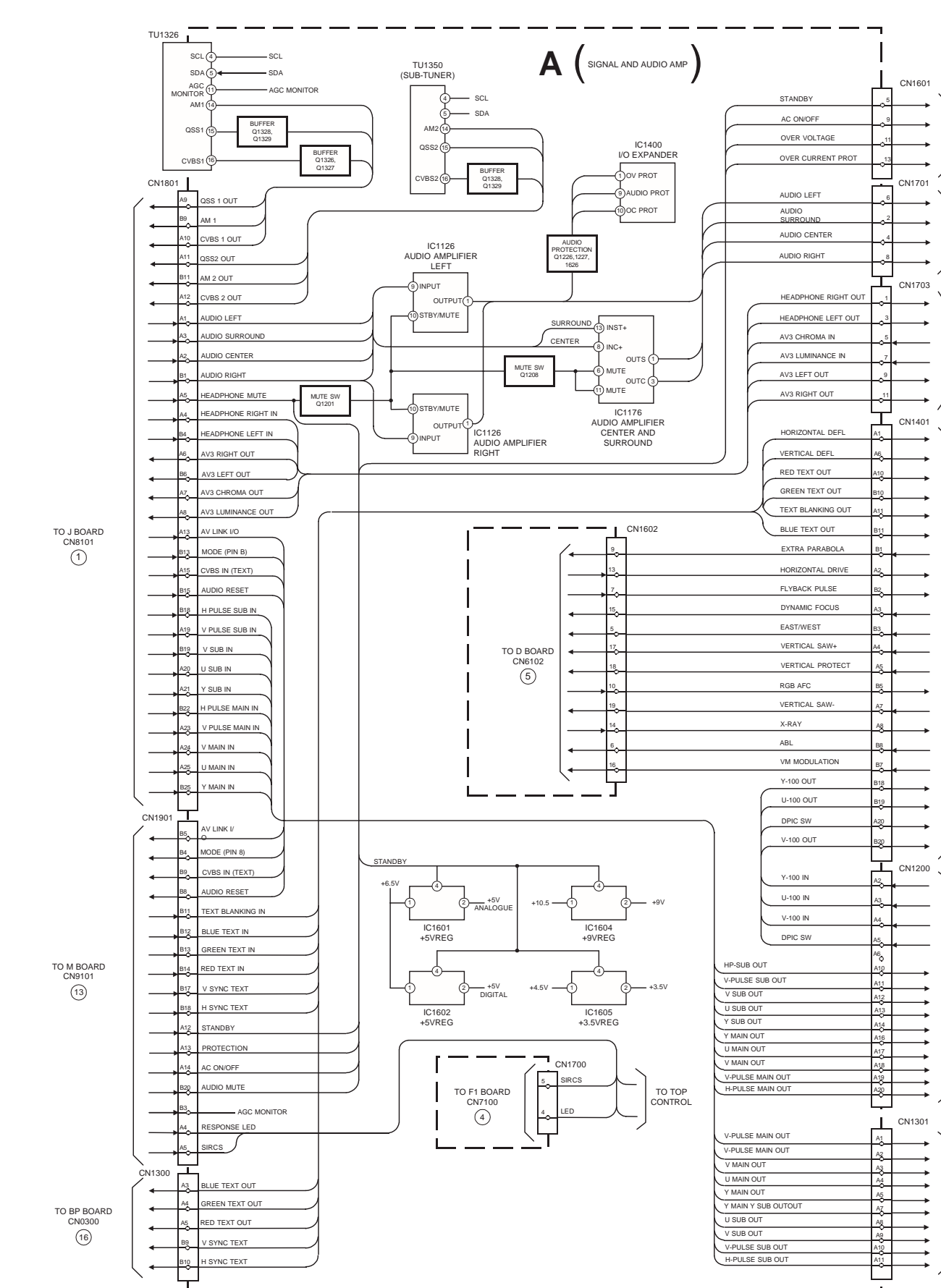


M (MICRO, TEXT)

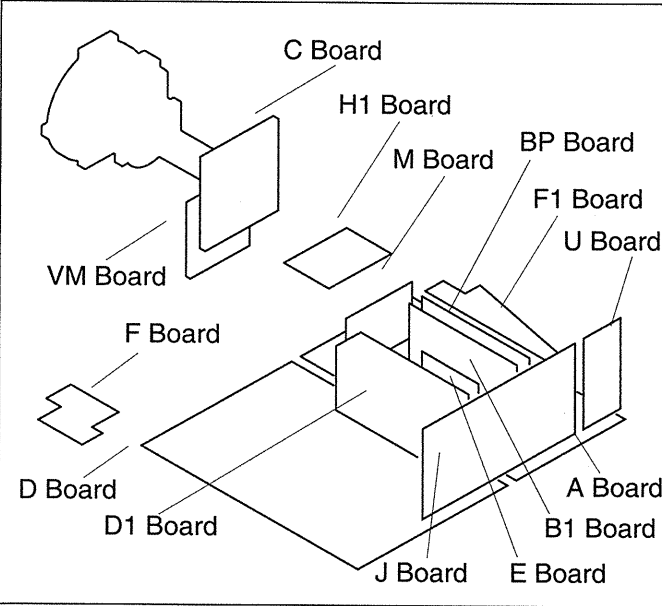
BLOCK DIAGRAMS (3)



BLOCK DIAGRAMS (4)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted.
- pF : μF F 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Electrical power rating : 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
k = 1000 ohms, M = 1000,000 ohms

- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation or adjustment for repair.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerances.

- : B + bus.
- : B - bus.
- : RF signal path.
- : earth - ground.
- : earth - chassis.

Reference Information

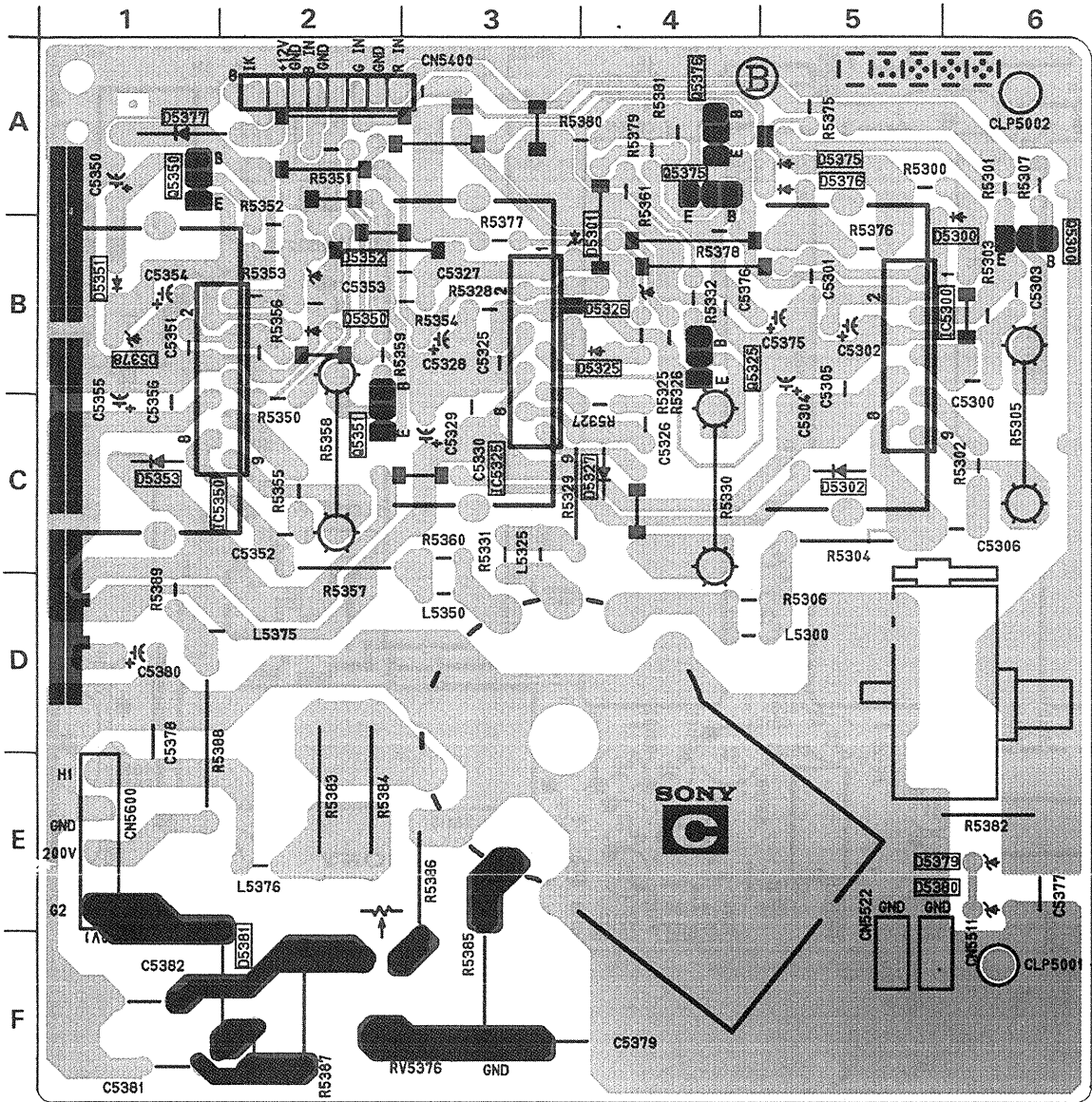
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note : The components identified by shading and marked are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

C [RGB OUT]

C Board

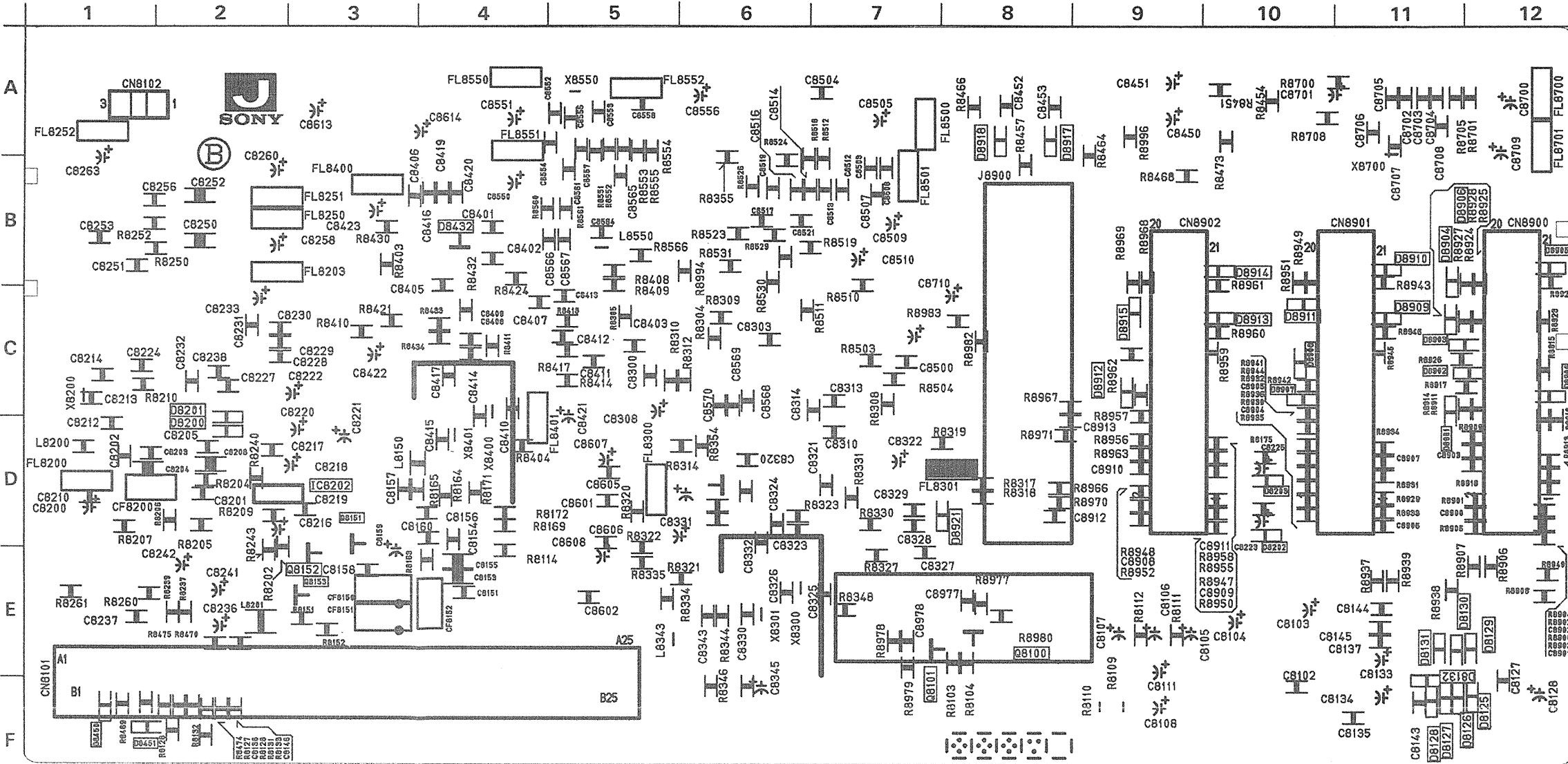


J BOARD

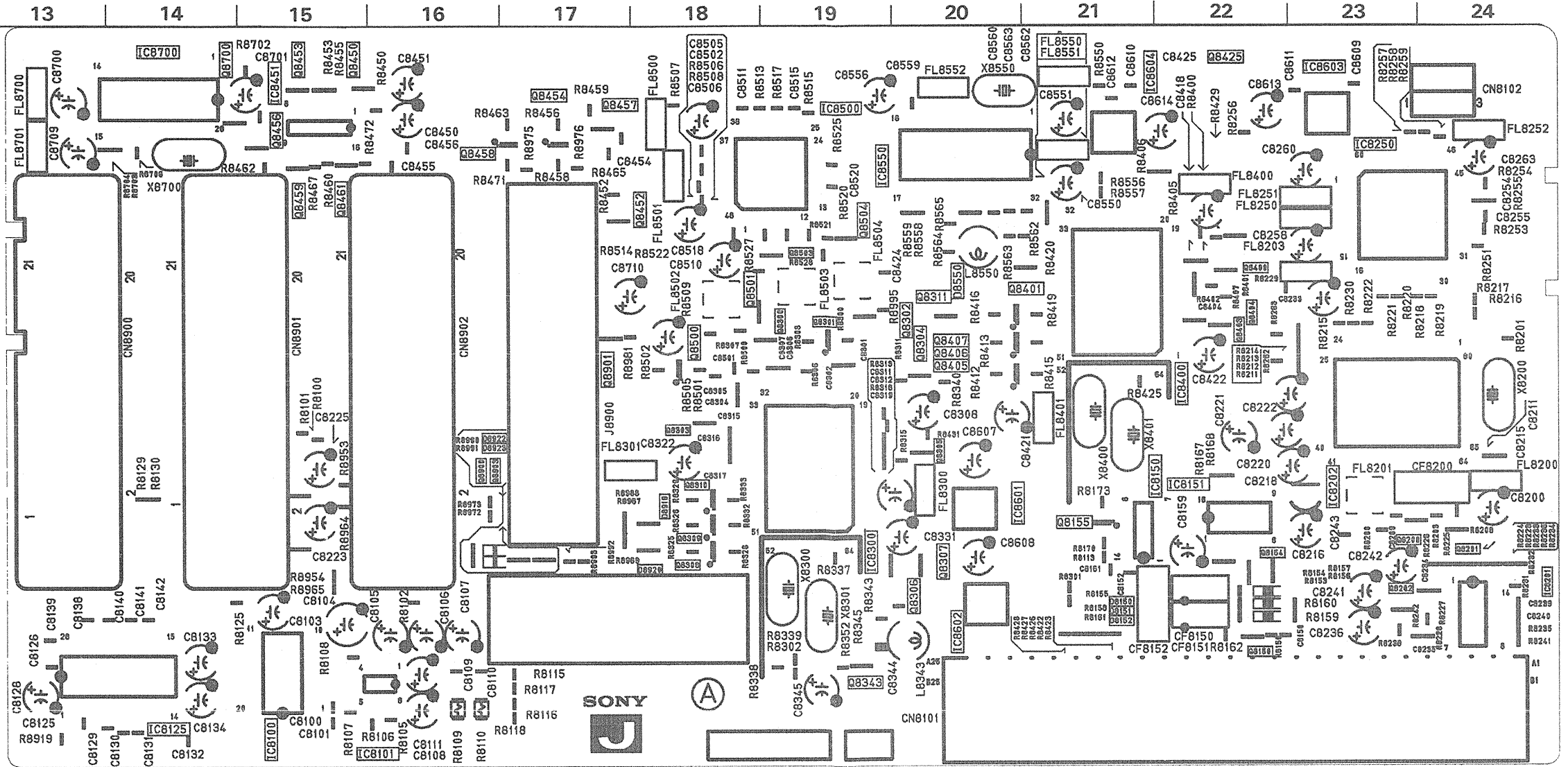
IC		
IC8100	F - 15	Q8461 B - 15
IC8101	F - 15	Q8900 D - 16
IC8125	F - 14	Q8901 C - 17
IC8151	D - 22	Q8903 D - 16
DIODE		
IC8201	E - 24	D8125 F - 12
IC8202	D - 23	D8126 F - 12
IC8300	E - 19	D8127 F - 11
IC8400	C - 22	D8128 F - 11
IC8451	A - 15	D8129 E - 12
IC8550	B - 19	D8130 E - 12
IC8601	D - 20	D8131 E - 11
IC8602	E - 20	D8200 D - 2
IC8603	A - 23	D8201 D - 2
IC8604	A - 21	D8202 E - 10
TRANSISTOR		
Q8200	E - 23	D8203 D - 10
Q8201	E - 24	D8432 B - 4
Q8202	E - 23	D8450 F - 1
Q8303	C - 19	D8451 F - 1
Q8304	C - 20	D8550 C - 20
Q8305	D - 20	D8900 C - 12
Q8307	D - 18	D8902 C - 11
Q8308	E - 18	D8903 C - 11
Q8309	E - 18	D8904 B - 11
Q8310	D - 18	D8905 B - 12
Q8311	C - 20	D8906 B - 12
Q8343	F - 19	D8907 C - 10
Q8400	B - 22	D8908 C - 10
Q8401	C - 20	D8909 C - 11
Q8403	C - 22	D8910 B - 11
Q8404	C - 22	D8911 C - 10
Q8405	C - 20	D8912 C - 9
Q8406	C - 20	D8913 C - 10
Q8407	C - 20	D8914 B - 10
Q8425	A - 22	D8915 C - 9
Q8450	A - 15	D8922 D - 16
Q8453	A - 15	D8923 D - 16
Q8456	A - 15	
Q8459	B - 15	

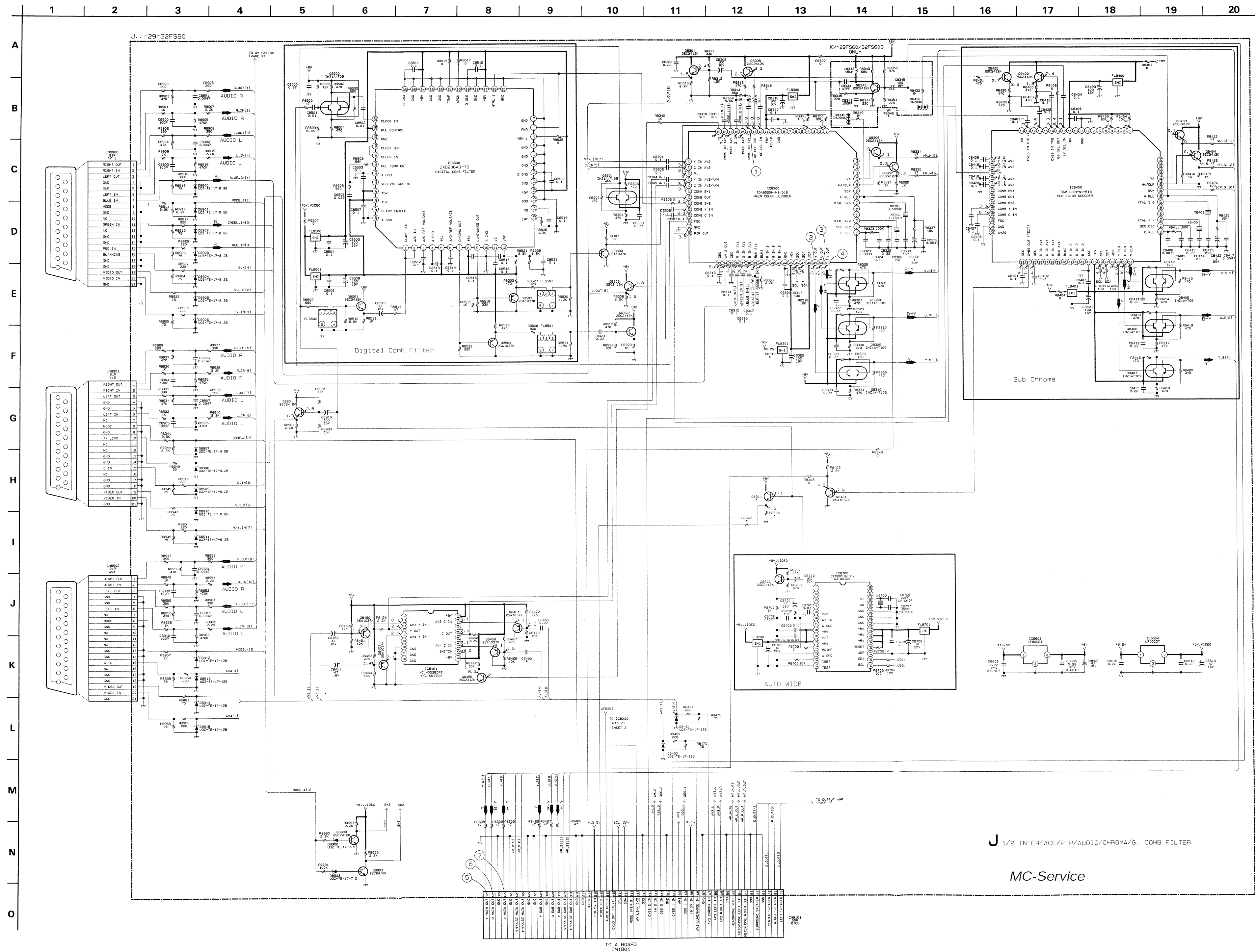


J Board <Conductor Side>



J Board <Component Side>

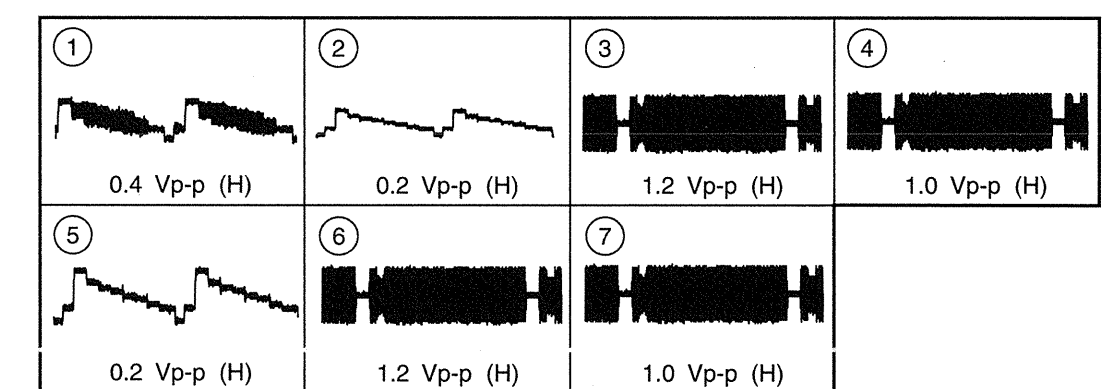




J BOARD * MARK

Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
C8243	-	0.33MF	-	-	-	-	-	-	0.33MF	-	-
C8465	0.22MF	0.22MF	0.22MF	0.22MF	0.22MF	0.22MF	0.22MF	0.22MF	-	0.22MF	0.22MF
D8349	-	DA204K-T-146	-	-	-	-	-	-	DA204K-T-146	-	-
Q8311	-	2SC2412K-T-146-R	-	-	-	-	-	-	2SC2412K-T-146-R	-	-
R8305	-	1K	-	-	-	-	-	-	1K	-	-
R8346	SHORT 0	-	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	-	SHORT 0	SHORT 0
R8347	-	100	-	-	-	-	-	-	100	-	-
R8348	-	SHORT 0	-	-	-	-	-	-	SHORT 0	-	-
R8349	-	1M	-	-	-	-	-	-	1M	-	-

Waveforms J1(1/2) Board

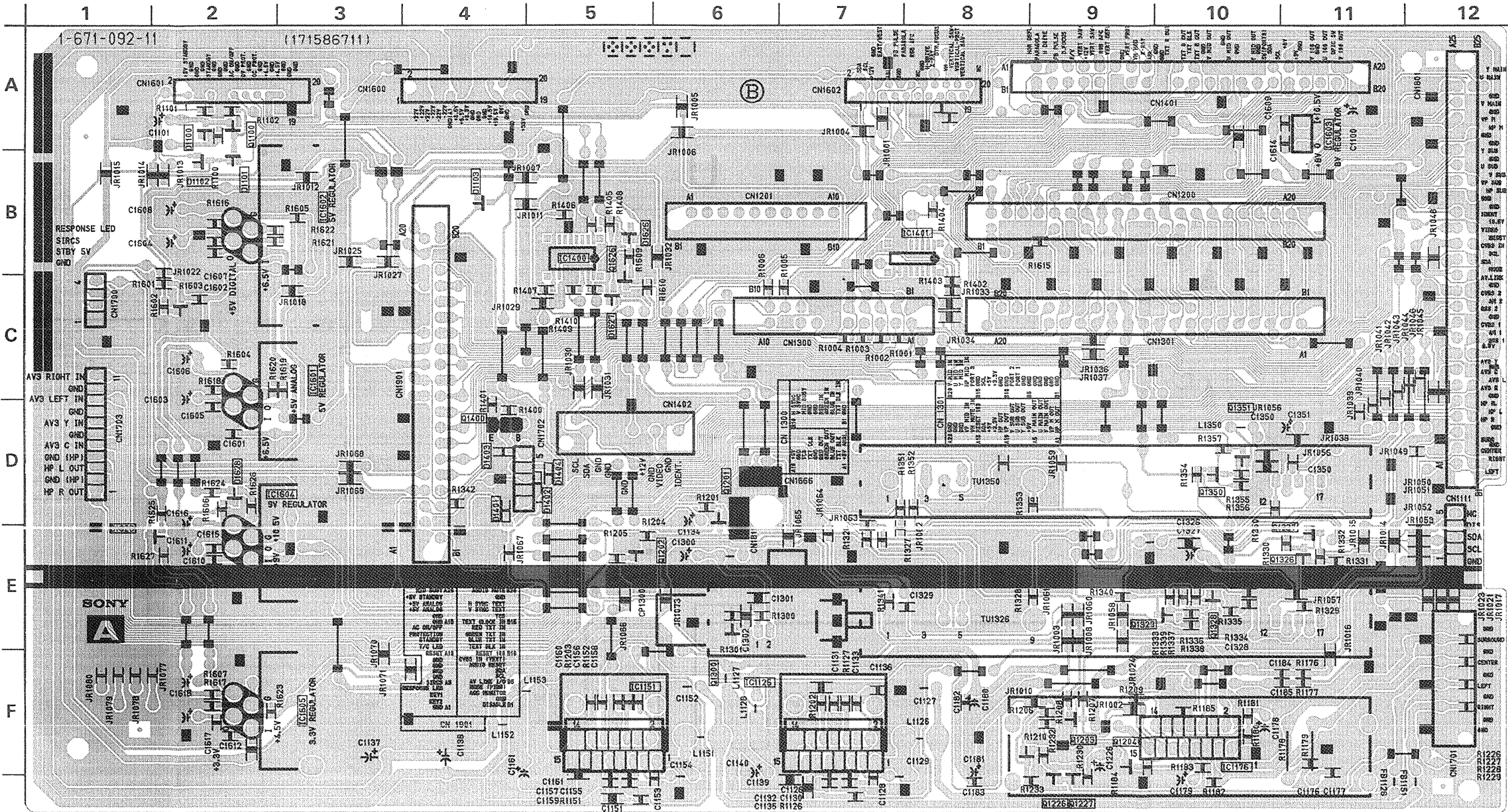




A [SIGNAL AND AUDIO AMP]

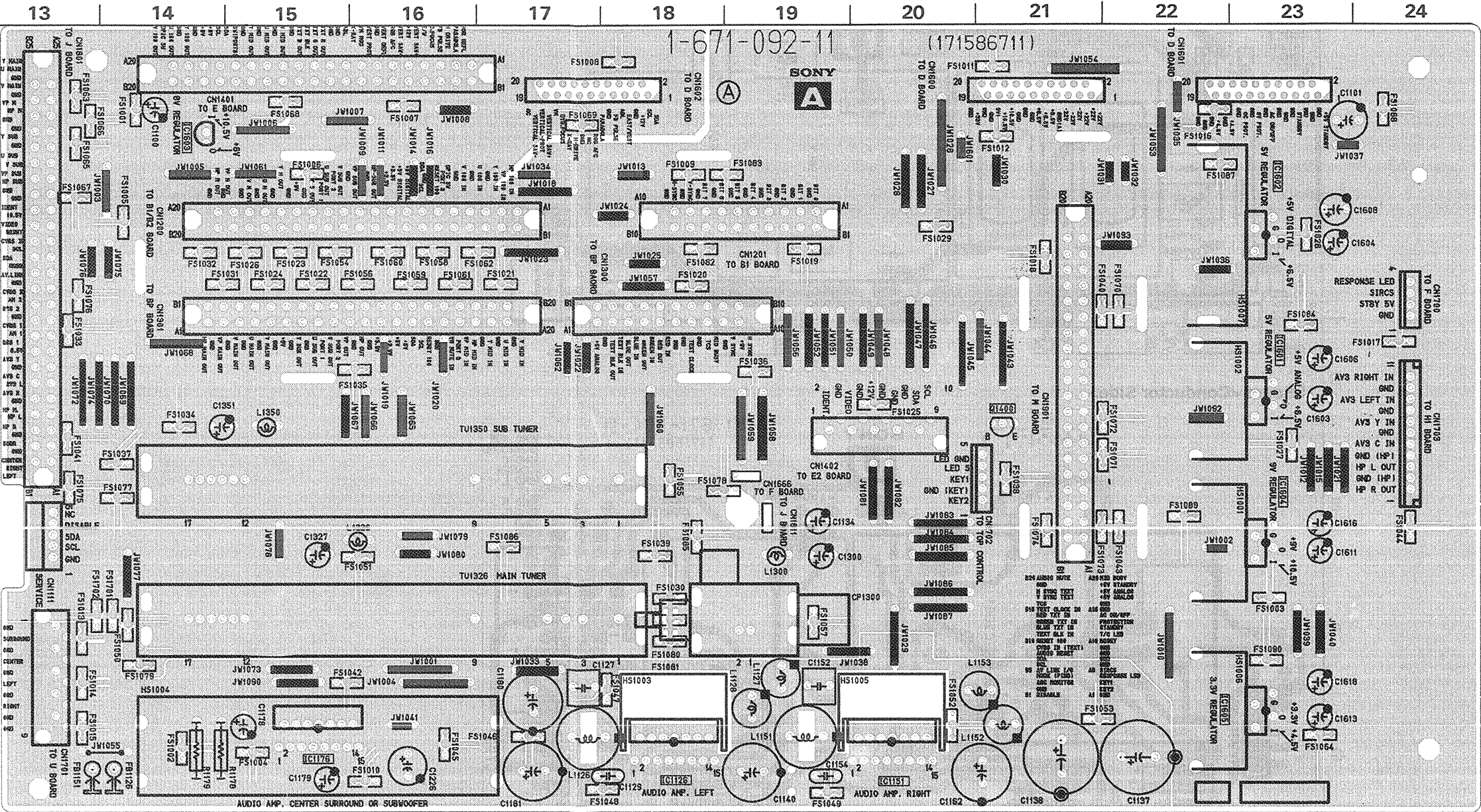
A Board <Conductor Side>

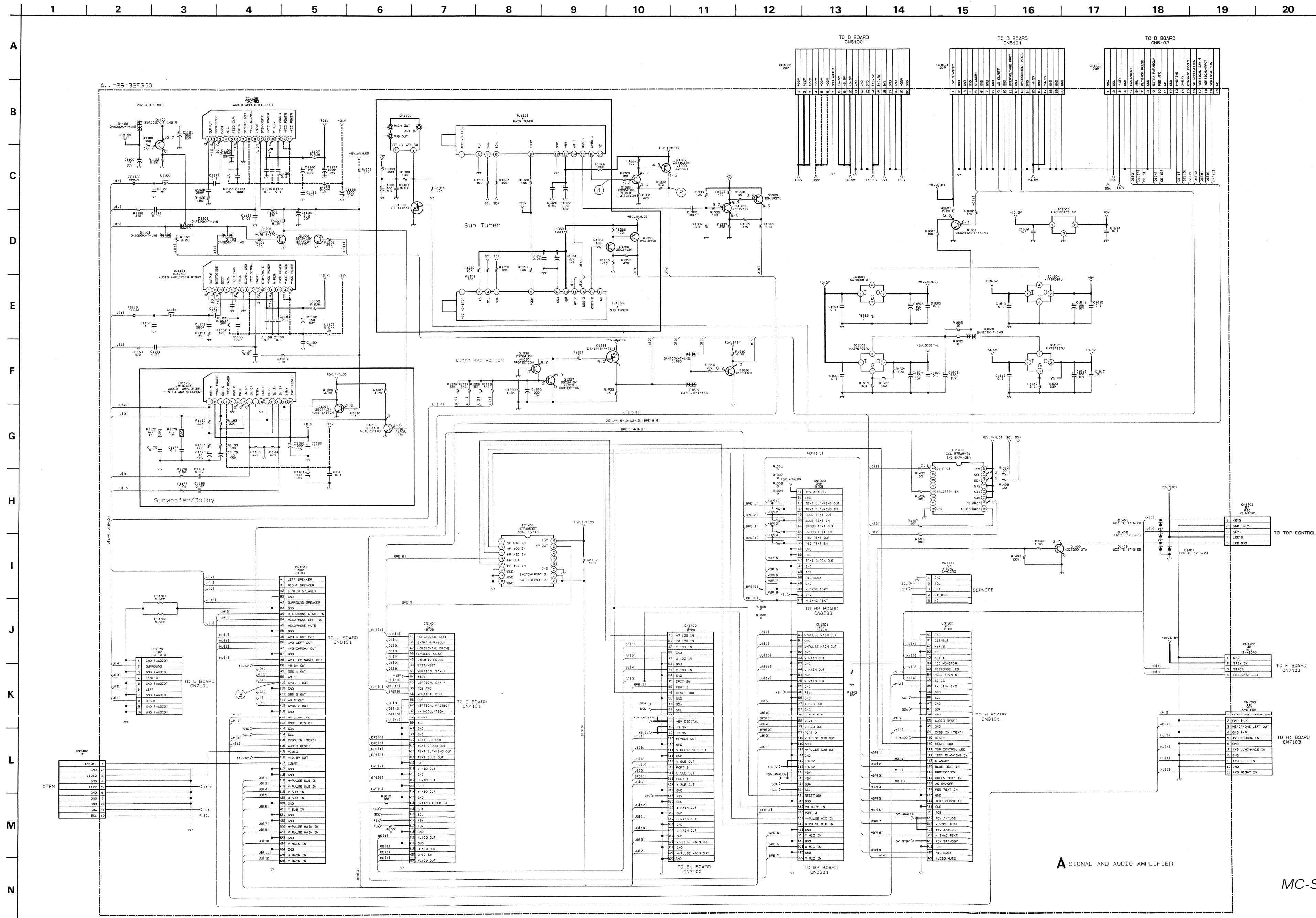
A BOARD			
IC		DIODE	
IC1126	F - 6	D1100	A - 2
IC1151	F - 5	D1101	B - 2
IC1176	G - 15	D1102	B - 2
IC1400	B - 5	D1103	B - 4
IC1601	C - 3	D1401	E - 4
IC1602	B - 3	D1402	D - 5
IC1603	A - 11	D1403	D - 4
IC1604	D - 3	D1404	D - 5
IC1605	F - 3	D1626	B - 6
TRANSISTOR		D1627	
Q1100	A - 2	D1629	E - 1
Q1201	D - 6		
Q1202	E - 6		
Q1203	F - 9		
Q1204	F - 9		
Q1226	G - 9		
Q1227	G - 9		
Q1326	E - 11		
Q1327	E - 11		
Q1328	E - 10		
Q1329	E - 10		
Q1400	D - 4		
Q1626	B - 5		



MC-Service

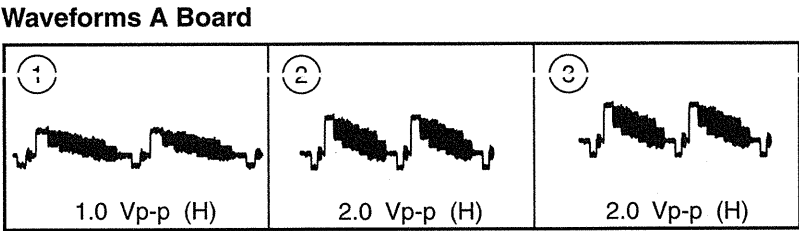
A Board <Component Side>





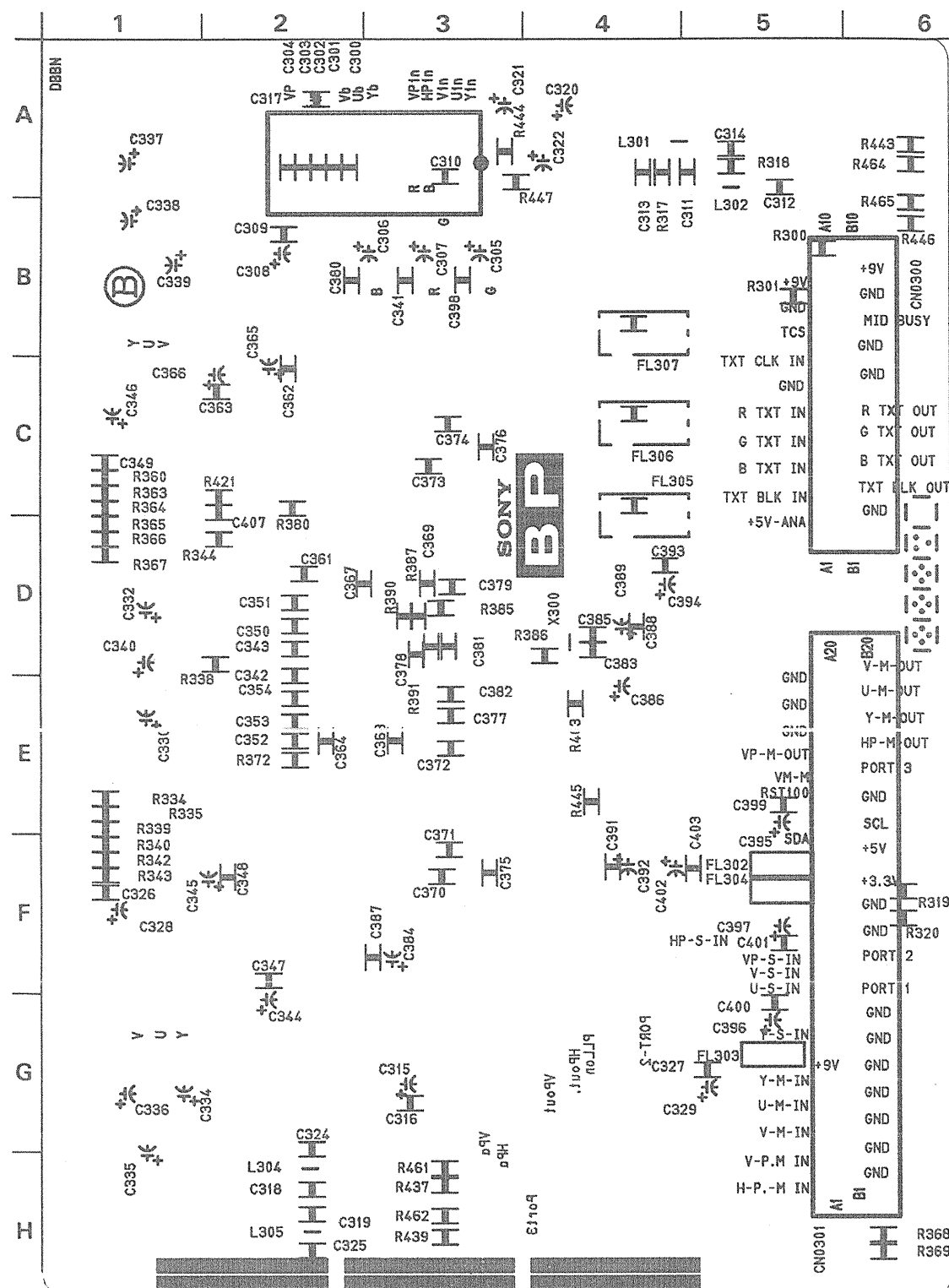
A BOARD MARK

Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
CN1402	-	10PIN	-	-	-	-	-	-	10PIN	-	-
R1210	47K 5%	47K 0.5%	47K 5%	47K 5%	47K 5%	47K 5%	47K 0.5%	47K 5%	47K 0.5%	47K 5%	47K 5%
TU1326	TUNER/VIF (AEP)	TUNER/VIF (FR)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (UK)	TUNER/VIF (AEP)	TUNER/VIF (FR)	TUNER/VIF (AEP)	TUNER/VIF (AEP)
TU1350	TUNER/VIF (AEP)	TUNER/VIF (FR)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (AEP)	TUNER/VIF (UK)	TUNER/VIF (AEP)	TUNER/VIF (FR)	TUNER/VIF (AEP)	TUNER/VIF (AEP)

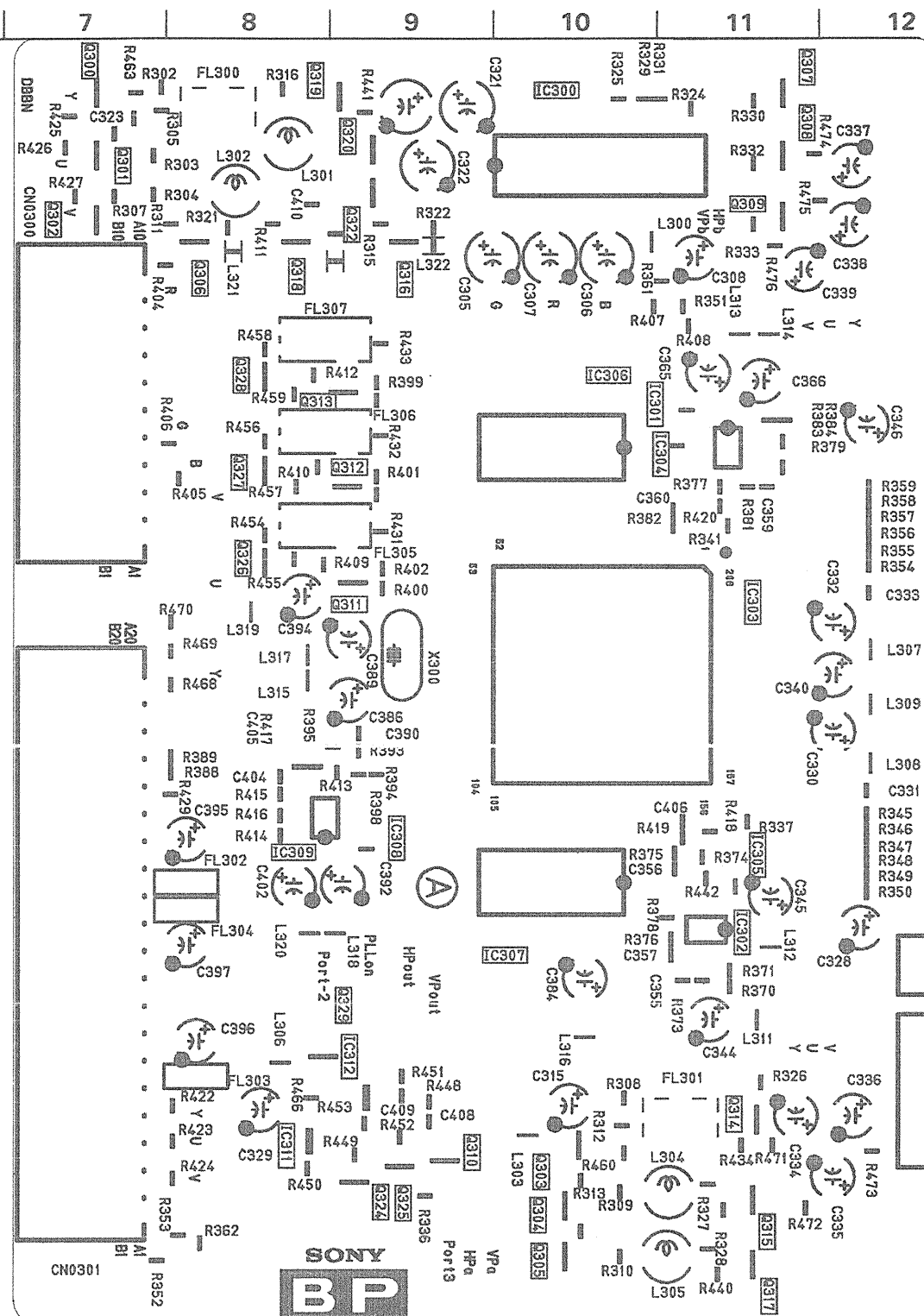


MC-Service

BP Board <Conductor Side>



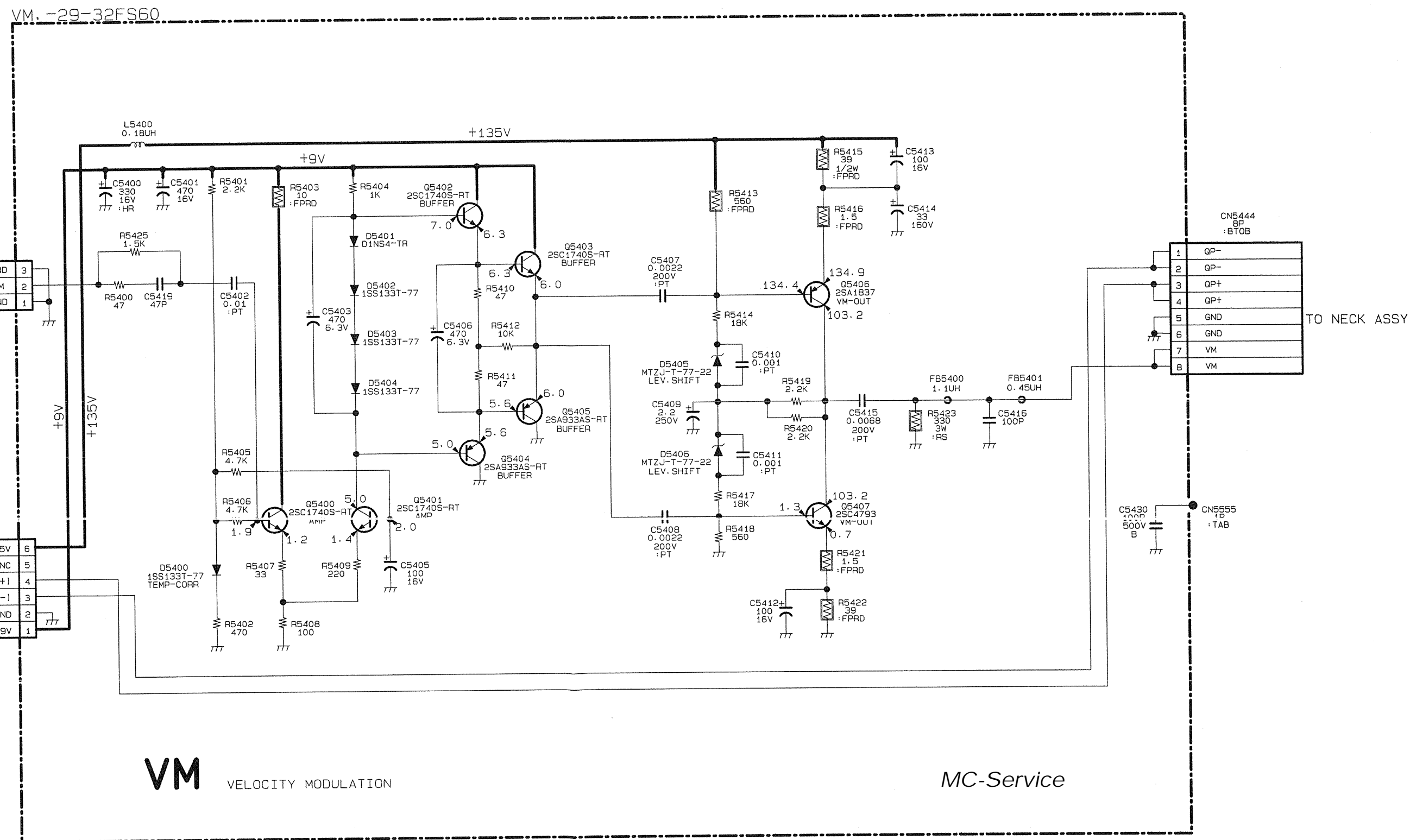
BP Board <Component Side>



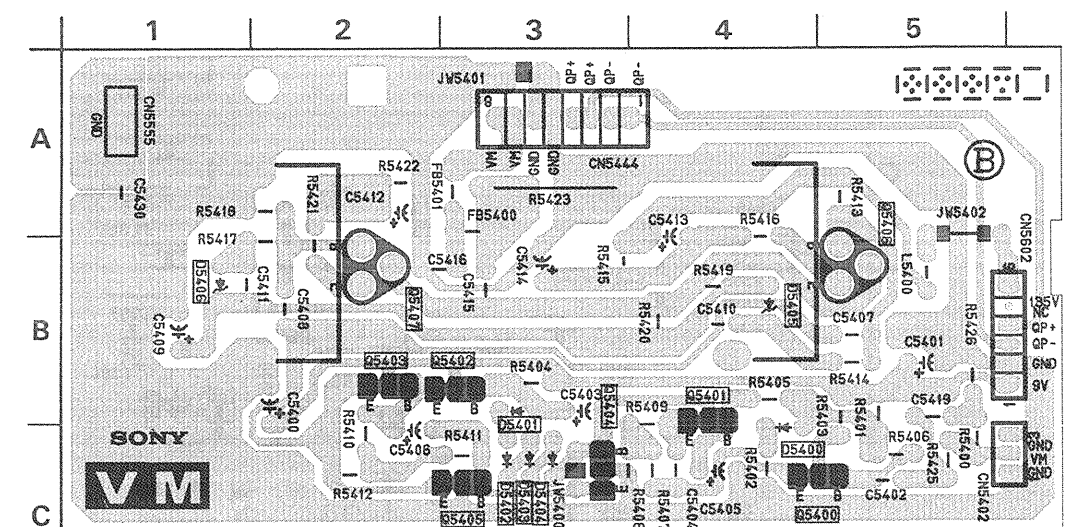
BP BOARD

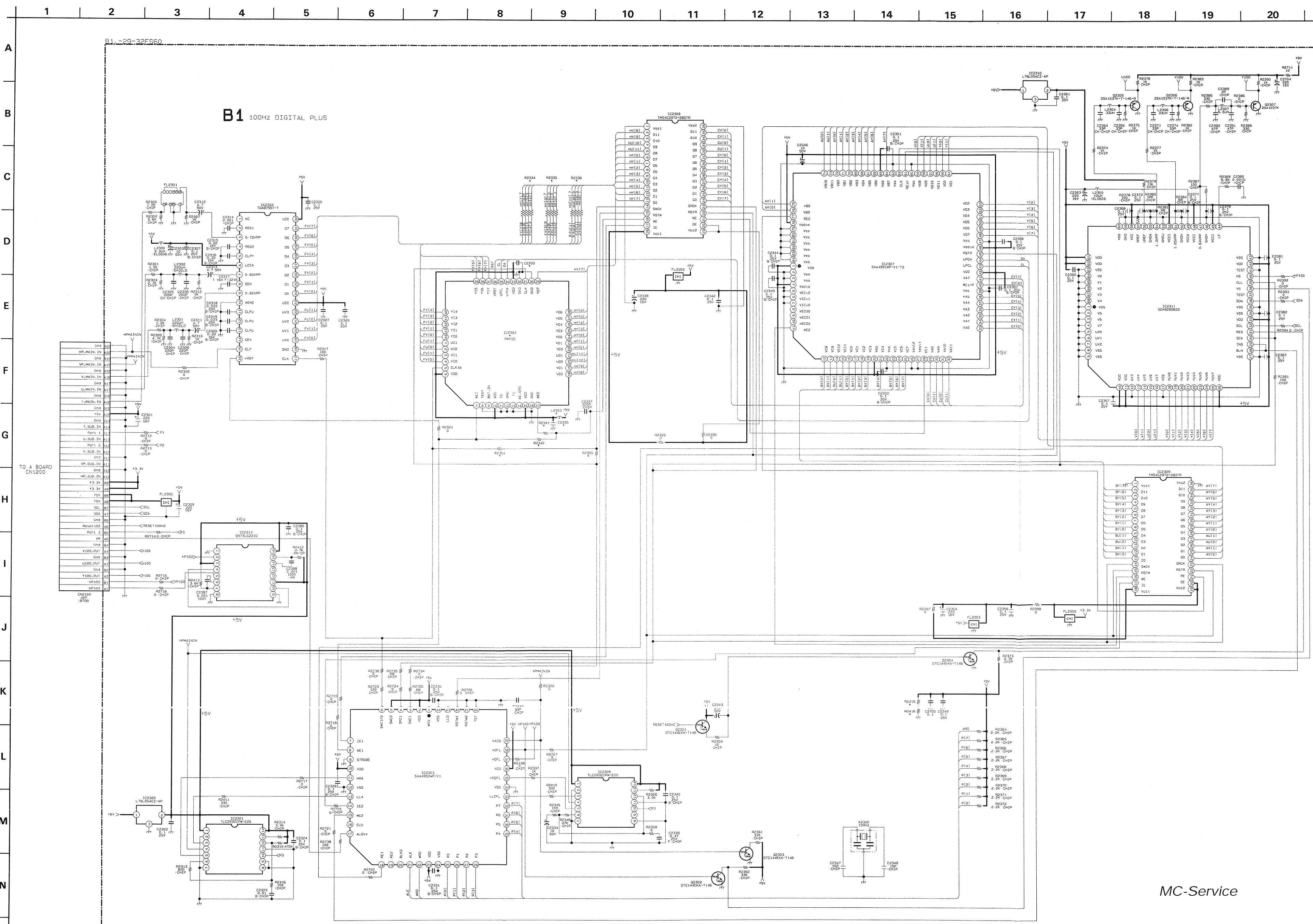
IC		Q307	A - 11
IC300	A - 10	Q308	A - 11
IC301	C - 10	Q309	B - 11
IC302	F - 11	Q310	G - 10
IC303	D - 11	Q311	D - 10
IC304	C - 10	Q312	D - 9
IC305	E - 8	Q313	C - 8
IC306	C - 10	Q314	G - 11
IC307	F - 10	Q315	H - 11
IC308	F - 10	Q316	B - 9
IC309	E - 9	Q317	H - 11
IC311	G - 8	Q318	B - 8
IC312	G - 9	Q319	A - 8
TRANSISTOR		Q320	A - 9
Q300	A - 7	Q322	B - 9
Q301	A - 7	Q324	C - 9
Q302	B - 7	Q325	G - 9
Q303	G - 9	Q326	D - 8
Q304	H - 9	Q327	C - 8
Q305	H - 9	Q328	C - 8
Q306	B - 8	Q329	F - 8

MC-Service



VM Board





B1 [100Hz DIGITAL PLUS]

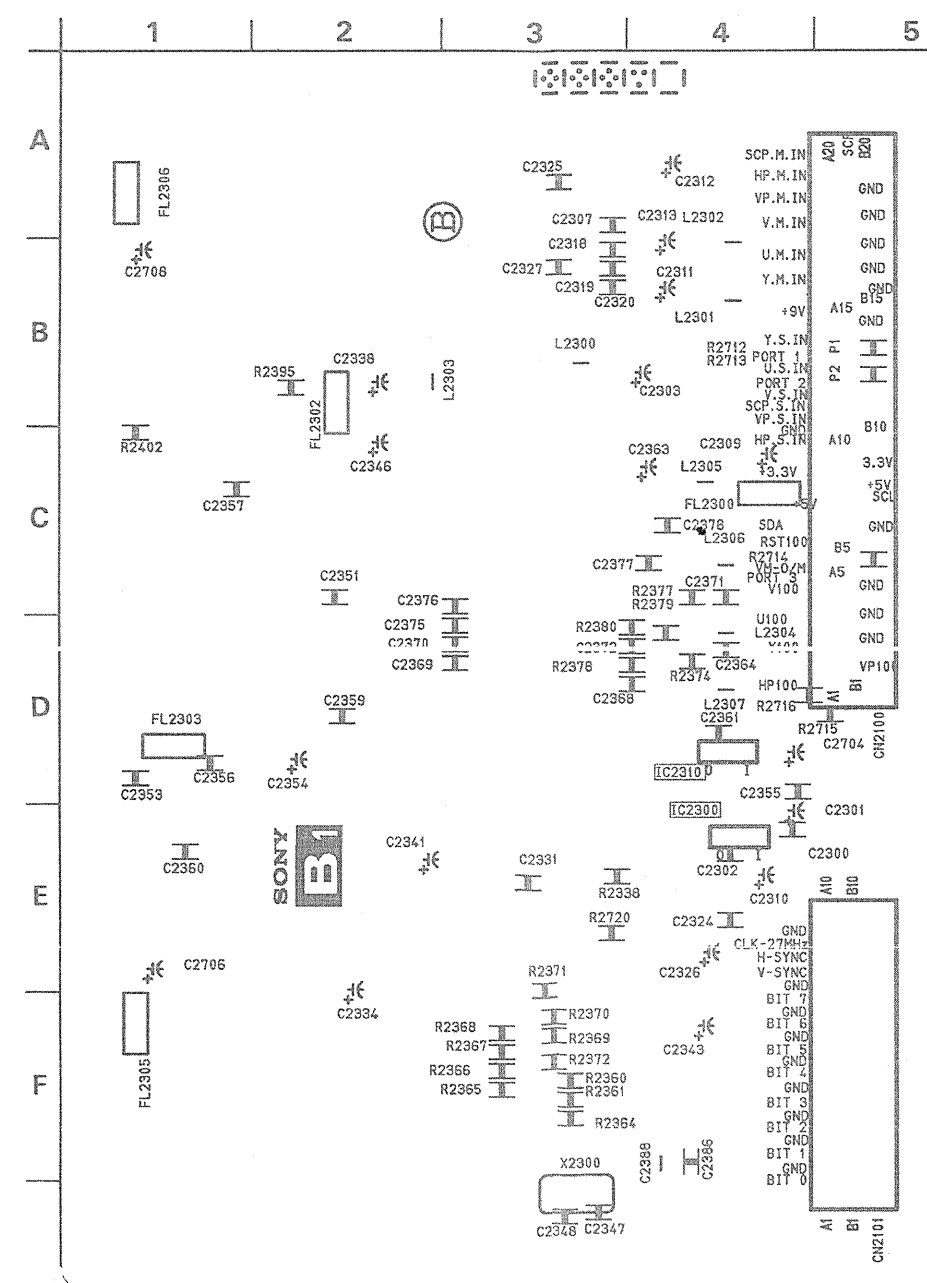
B1 BOARD * MARK

Ref	29F560A	29F560B	29F560D	29F560E	29F560K	29F560R	29F560U	32F560A	32F560B	32F560D	32F560E
C2333	-	-	-	-	-	-	-	0.1MF	0.1MF	0.1MF	0.1MF
C2335	-	-	-	-	-	-	-	0.1MF	0.1MF	0.1MF	0.1MF
IC2304	-	-	-	-	-	-	-	SAA4955WP-V1-T3	SAA4955WP-V1-T3	SAA4955WP-V1-T3	SAA4955WP-V1-T3
L2303	-	-	-	-	-	-	-	3.3UH	3.3UH	3.3UH	3.3UH
R2334	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	-	-	-	-
R2335	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	-	-	-	-
R2336	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	RES,CHIP NETWORK 10	-	-	-	-
R2341	-	-	-	-	-	-	-	SHORT 0	SHORT 0	SHORT 0	SHORT 0
R2342	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	-	-	-	-
R2354	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	-	-	-	-
R2355	-	-	-	-	-	-	-	SHORT 0	SHORT 0	SHORT 0	SHORT 0
R2415	-	-	-	-	-	-	-	SHORT 0	SHORT 0	SHORT 0	SHORT 0
R2416	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	-	-	-	-

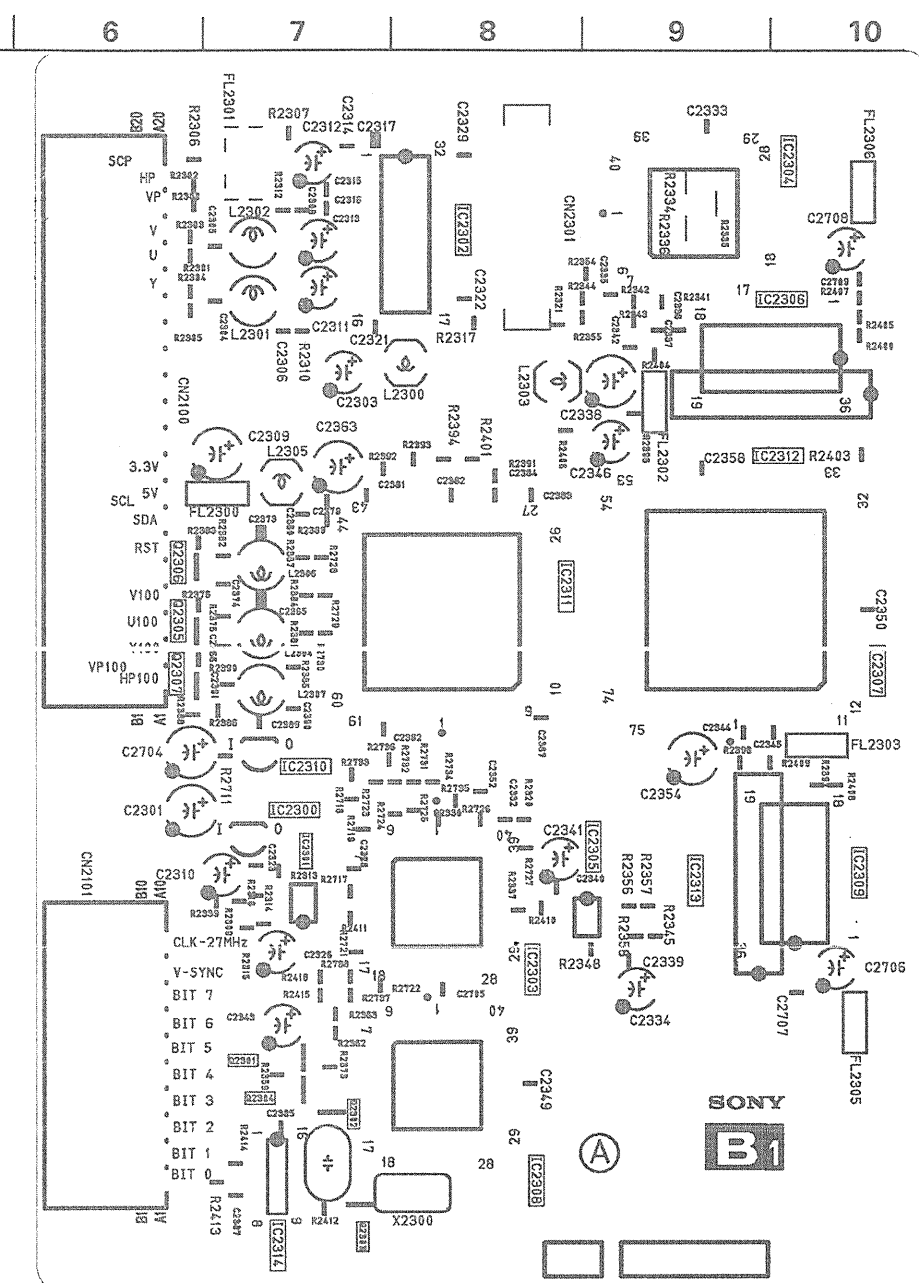
B1 BOARD

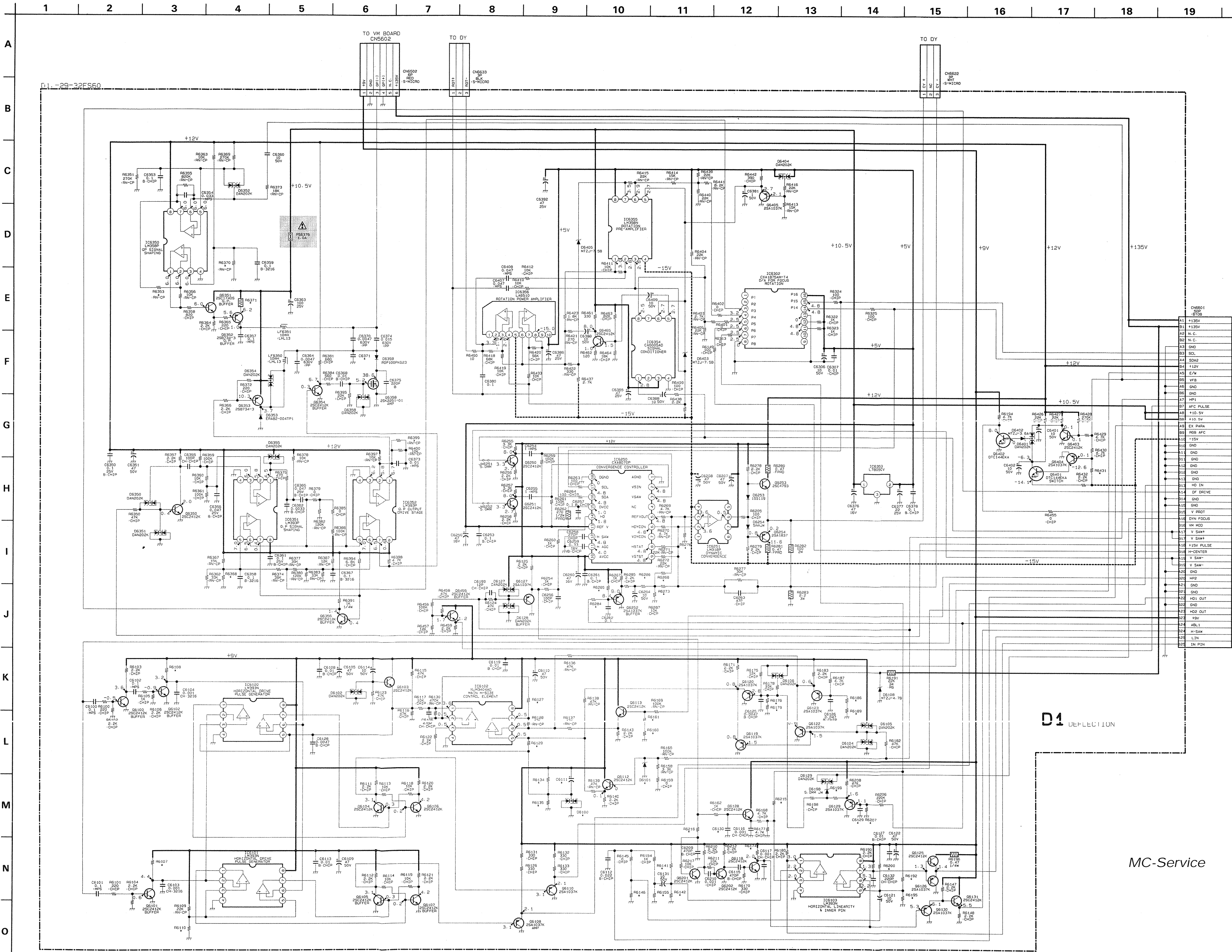
IC	
IC2300	E - 4
IC2301	A - 11
IC2302	B - 9
IC2305	E - 8
IC2306	B - 9
IC2307	D - 10
IC2309	E - 10
IC2310	D - 7

B1 Board <Conductor Side>



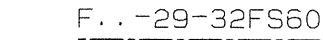
B1 Board <Component Side>





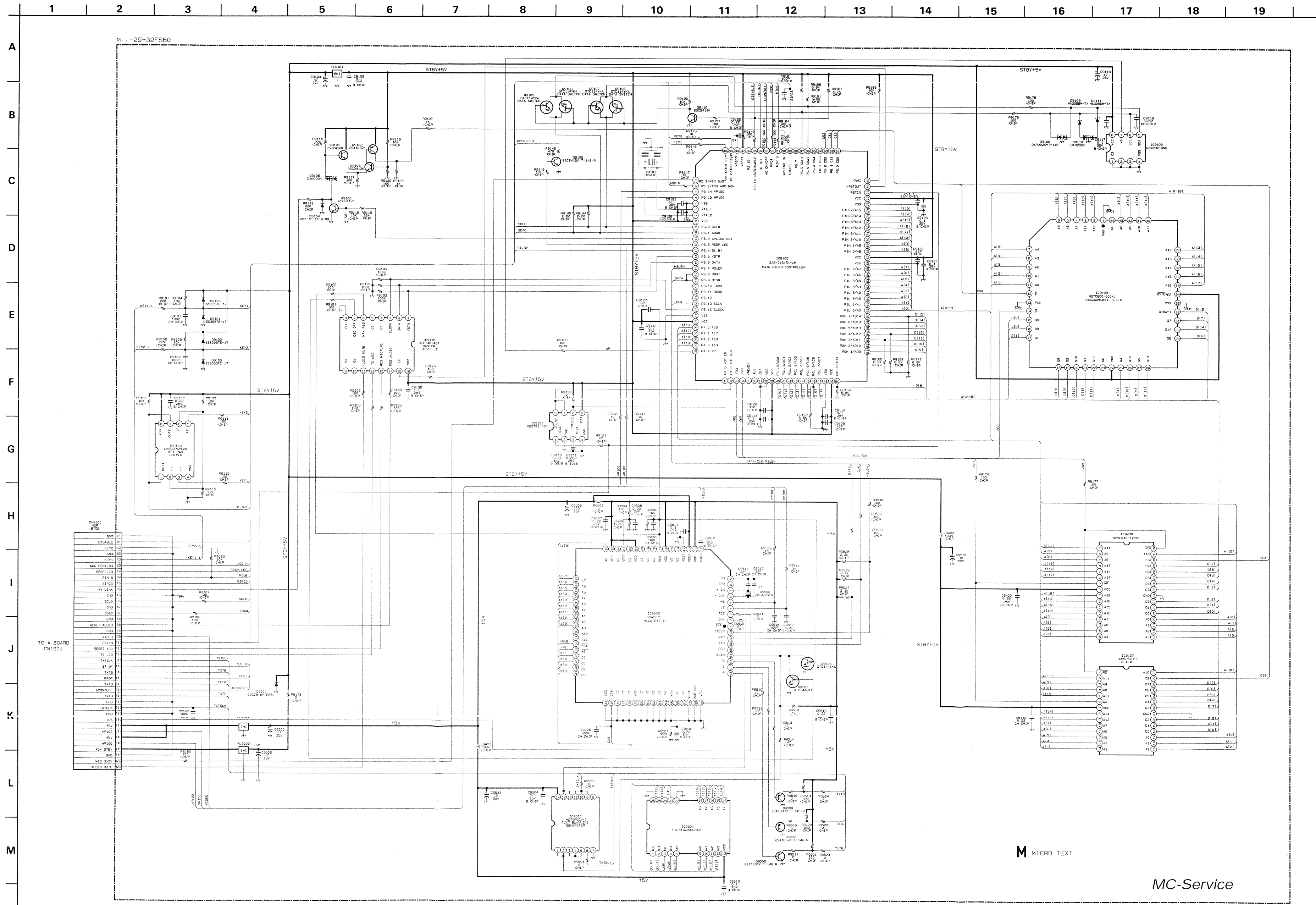
D1 BOARD * MARK

Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
C6111	-	-	-	-	-	-	-	47MF	47MF	47MF	47MF
C6129	0.1MF	0.1MF	0.1MF	0.1MF	0.1MF	0.1MF	0.1MF	0.33MF	0.33MF	0.33MF	0.33MF
C6130	220PF	220PF	220PF	220PF	220PF	220PF	220PF	-	-	-	-
C6371	-	-	-	-	-	-	-	0.0047MF	0.0047MF	0.0047MF	0.0047MF
D6100	-	-	-	-	-	-	-	DAN202K-T-146	DAN202K-T-146	DAN202K-T-146	DAN202K-T-146
D6101	-	-	-	-	-	-	-	MTZJ-T-77-4.7B	MTZJ-T-77-4.7B	MTZJ-T-77-4.7B	MTZJ-T-77-4.7B
R6107	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	1.8K	1.8K	1.8K	1.8K
R6108	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	1.8K	1.8K	1.8K	1.8K
R6110	15K	15K	15K	15K	15K	15K	15K	22K	22K	22K	22K
R6127	15K	15K	15K	15K	15K	15K	15K	22K	22K	22K	22K
R6129	-	-	-	-	-	-	-	47K	47K	47K	47K
R6134	-	-	-	-	-	-	-	2.2K	2.2K	2.2K	2.2K
R6135	0.01MF	0.01MF	0.01MF	0.01MF	0.01MF	0.01MF	0.01MF	2.2K	2.2K	2.2K	2.2K
R6141	22K	22K	22K	22K	22K	22K	22K	6.8K	6.8K	6.8K	6.8K
R6142	7.5K	7.5K	7.5K	7.5K	7.5K	7.5K	7.5K	2.2K	2.2K	2.2K	2.2K
R6146	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K
R6155	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	4.7K	100K	100K	100K	100K
R6160	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	1K	1K	1K	1K
R6161	8.2K	8.2K	8.2K	8.2K	8.2K	8.2K	8.2K	5.6K	5.6K	5.6K	5.6K
R6174	12K	12K	12K	12K	12K	12K	12K	22K	22K	22K	22K
R6176	22K	22K	22K	22K	22K	22K	22K	SHORT 0	SHORT 0	SHORT 0	SHORT 0
R6179	1.5K	1.5K	1.5K	1.5K	1.5K	1.5K	1.5K	3.3K	3.3K	3.3K	3.3K
R6186	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	1K	1K	1K	1K
R6189	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	SHORT 0	1K	1K	1K	1K
R6192	3.9K	3.9K	3.9K	3.9K	3.9K	3.9K	3.9K	22K	22K	22K	22K
R6195	22K	22K	22K	22K	22K	22K	22K	68K	68K	68K	68K
R6198	22K	22K	22K	22K	22K	22K	22K	47K	47K	47K	47K
R6199	22K	22K	22K	22K	22K	22K	22K	47K	47K	47K	47K
R6200	-	-	-	-	-	-	-	270K	270K	270K	270K
R6207	150K	150K	150K	150K	150K	150K	150K	330K	330K	330K	330K
R6215	22K	22K	22K	22K	22K	22K	22K	47K	47K	47K	47K
R6216	47K	47K	47K	47K	47K	47K	47K	47K	47K	47K	47K
R6265	1K	1K	1K	1K	1K	1K	1K	180K	180K	180K	180K
R6268	-	-	-	-	-	-	-	33K	33K	33K	33K
R6273	22K	22K	22K	22K	22K	22K	22K	-	-	-	-
R6276	39K	39K	39K	39K	39K	39K	39K	30K	30K	30K	30K
R6284	470K	470K	470K	470K	470K	470K	470K	330K	330K	330K	330K
R6286	10K	10K	10K	10K	10K	10K	10K	6.8K	6.8K	6.8K	6.8K
R6353	5.1K	5.1K	5.1K	5.1K	5.1K	5.1K	5.1K	6.8K	6.8K	6.8K	6.8K
R6368	180K	180K	180K	180K	180K	180K	180K	220K	220K	220K	220K
R6370	10K	10K	10K	10K	10K	10K	10K	12K	12K	12K	12K
R6371	56	56	56	56	56	56	56	82	82	82	82
R6399	180K	180K	180K	180K	180K	180K	180K	150K	150K	150K	150K
R6431	-	-	-	-	-	-	-	470K	470K	470K	470K



IC		Q6350		E - 8
IC6100	C - 9	Q6351		E - 3
IC6101	C - 12	Q6352		D - 3
IC6102	D - 11	Q6353		C - 2
IC6103	G - 12	Q6354		C - 2
IC6250	D - 8	Q6356		G - 4
IC6251	C - 8	Q6258		B - 2
IC6302	D - 5	Q6401		F - 7
IC6350	D - 3	Q6402		G - 6
IC6351	G - 3	Q6403		F - 5
IC6352	G - 1	Q6404		G - 6
IC6353	E - 5	Q6455		C - 8
IC6354	C - 5	Q6465		B - 5
IC6355	A - 5	DIODE		
IC6356	A - 6			
TRANSISTOR		D6100	D - 12	
Q6100	D - 11	D6101	E - 12	
Q6101	C - 11	D6102	D - 10	
Q6102	C - 12	D6104	E - 9	
Q6104	C - 9	D6105	E - 9	
Q6105	B - 11	D6106	E - 8	
Q6106	C - 9	D6108	F - 11	
Q6107	E - 11	D6127	D - 6	
Q6108	B - 10	D6128	E - 6	
Q6110	C - 8	D6129	D - 8	
Q6118	G - 10	D6198	D - 8	
Q6119	E - 8	D6253	B - 8	
Q6120	E - 9	D6254	B - 7	
Q6122	E - 9	D6350	F - 4	
Q6123	E - 12	D6351	F - 4	
Q6125	H - 11	D6352	E - 1	
Q6126	H - 11	D6353	C - 2	
Q6127	E - 6	D6354	D - 2	
Q6128	F - 12	D6355	E - 3	
Q6130	H - 11	D6358	B - 2	
Q6131	G - 12	D6359	B - 3	
Q6201	F - 10	D6401	F - 7	
Q6202	F - 10	D6402	F - 6	
Q6250	E - 8	D6403	A - 5	
Q6251	E - 8	D6404	A - 4	
Q6252	B - 10	D6405	A - 5	
Q6253	B - 11			
Q6254	C - 2			

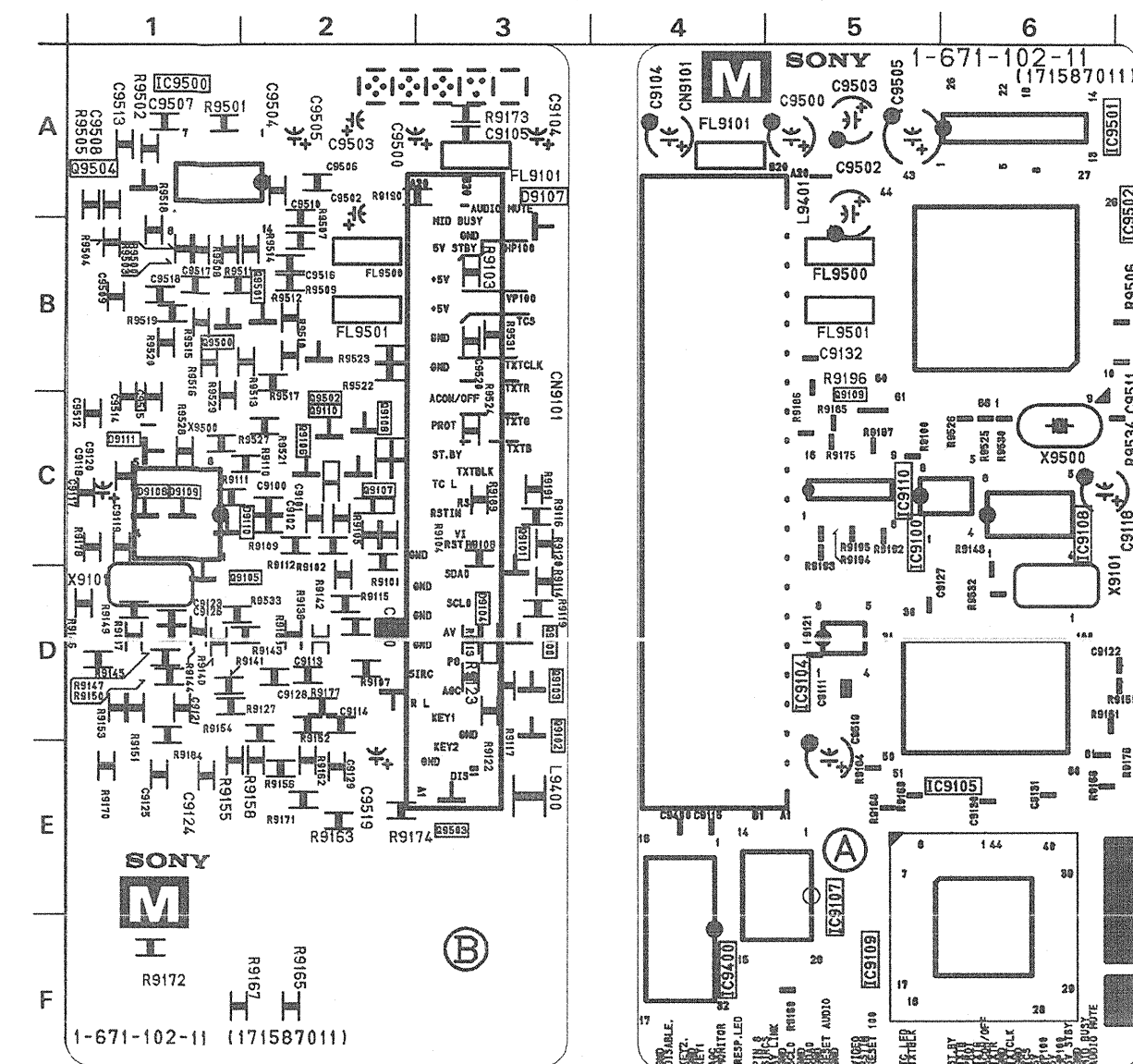
F1



M [MICRO, TEXT]

M Board <Conductor Side>

M Board <Component Side>



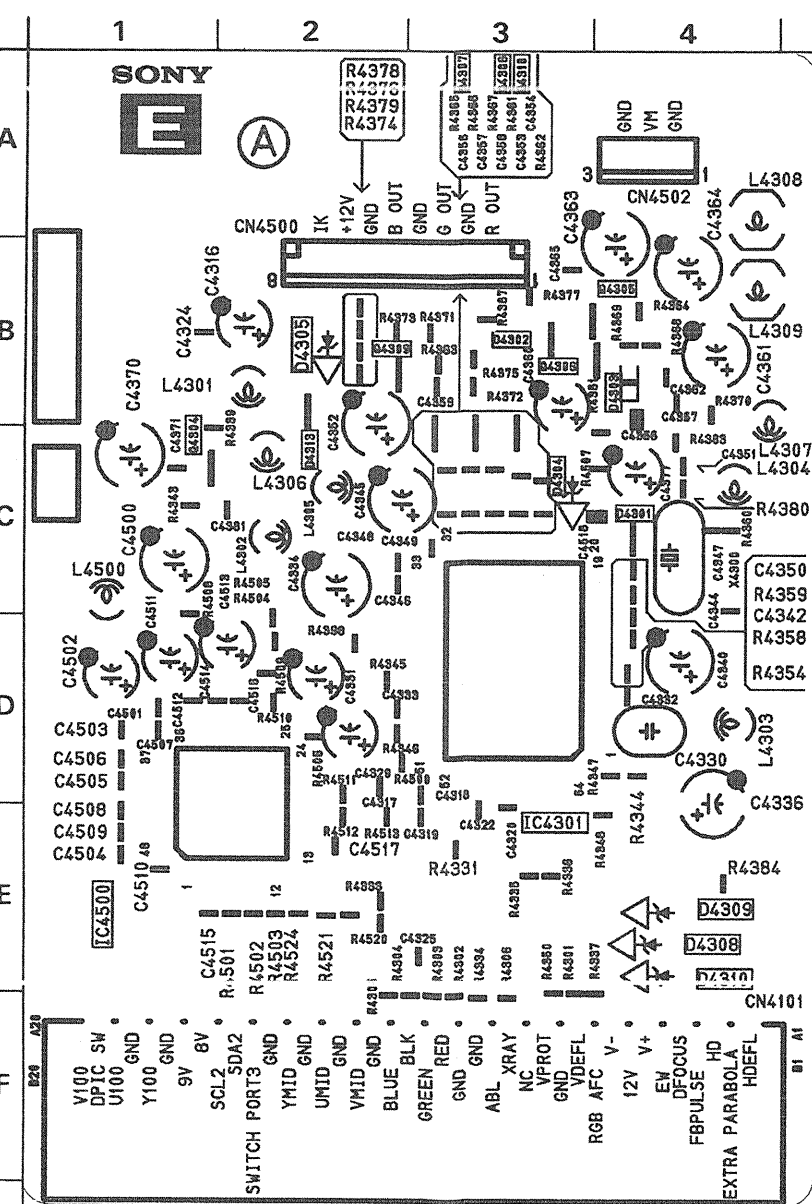
M BOARD

IC	
IC9100	C - 5
IC9104	D - 5
IC9105	E - 6
IC9107	E - 5
IC9108	C - 6
IC9109	F - 5
IC9110	C - 5
IC9500	A - 1
IC9502	B - 6
TRANSISTOR	
Q9100	D - 3
Q9101	C - 3
Q9102	D - 3
Q9103	D - 3
Q9105	D - 1
Q9106	C - 2
Q9107	C - 2
Q9108	C - 2
Q9109	B - 5
Q9110	C - 2
Q9500	B - 1
Q8501	B - 2
Q9502	C - 2
Q9503	E - 3
Q8504	A - 1
DIODE	
D9104	D - 3
D9107	A - 3
D9108	C - 1
D9109	C - 1
D9110	C - 2
D9111	C - 1

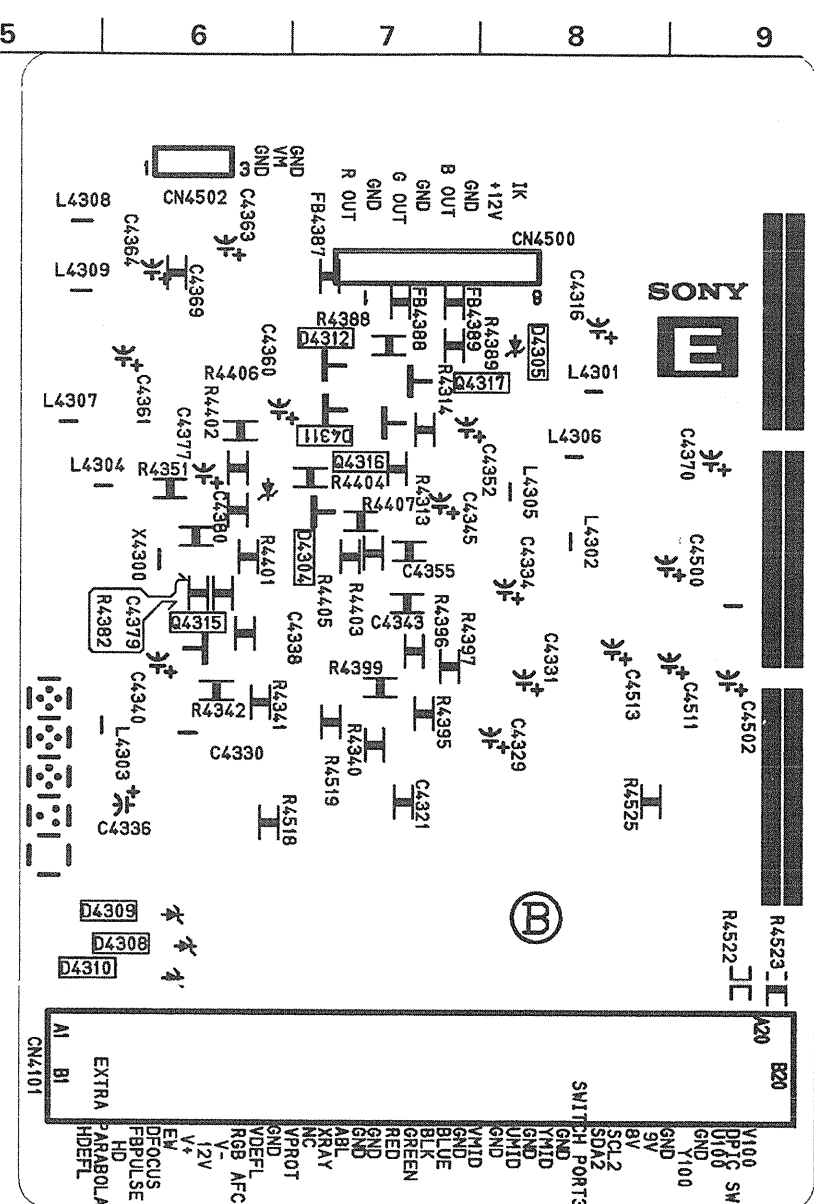
E BOARD * MARK

Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
C4357	-	-	-	-	-	-	-	0.1MF	0.1MF	0.1MF	0.1MF
C4367	0.047MF 25V	0.047MF 25V	0.047MF 25V	0.047MF 25V	0.047MF 25V	0.047MF 25V	0.047MF 25V	0.047MF 50V	0.047MF 50V	0.047MF 50V	0.047MF 50V
C4379	-	-	-	-	-	-	-	47PF	47PF	47PF	47PF
C4380	-	-	-	-	-	-	-	470PF	470PF	470PF	470PF
Q4318	-	-	-	-	-	-	-	2SA1037K-T- 146-R	2SA1037K-T- 146-R	2SA1037K-T- 146-R	2SA1037K-T- 146-R
R4381	1.5M	1.5M	1.5M	1.5M	1.5M	1.5M	1.5M	1.8M	1.8M	1.8M	1.8M
R4383	47K	47K	47K	47K	47K	47K	47K	18K	18K	18K	18K
R4401	270K	270K	270K	270K	270K	270K	270K	120K	120K	120K	120K
R4402	-	-	-	-	-	-	-	56K	56K	56K	56K
R4403	-	-	-	-	-	-	-	10K	10K	10K	10K
R4404	-	-	-	-	-	-	-	10K	10K	10K	10K
R4405	-	-	-	-	-	-	-	39K	39K	39K	39K
R4406	-	-	-	-	-	-	-	220K	220K	220K	220K
R4407	-	-	-	-	-	-	-	56K	56K	56K	56K

E Board <Component Side>



E Board <Conductor Side>

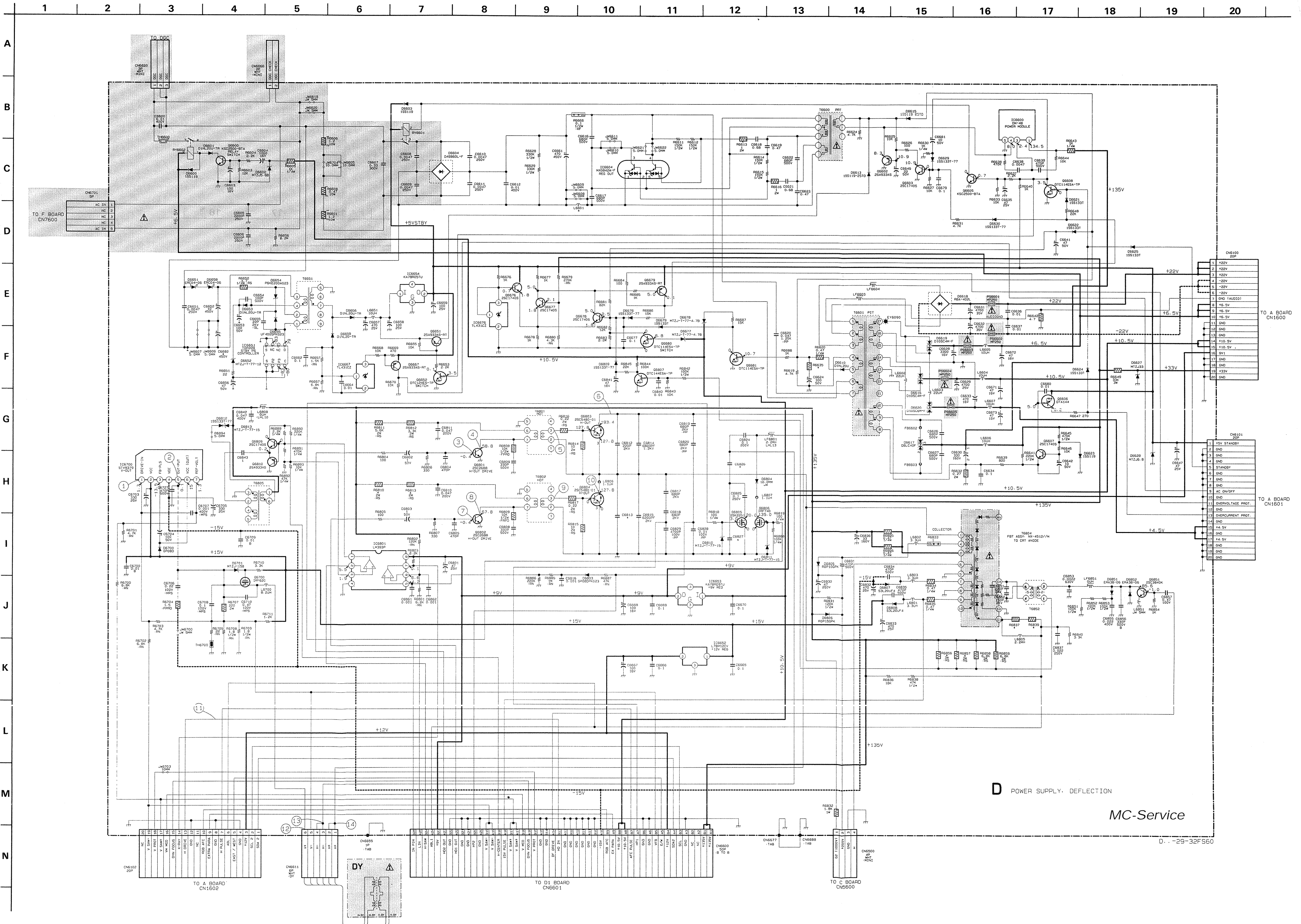
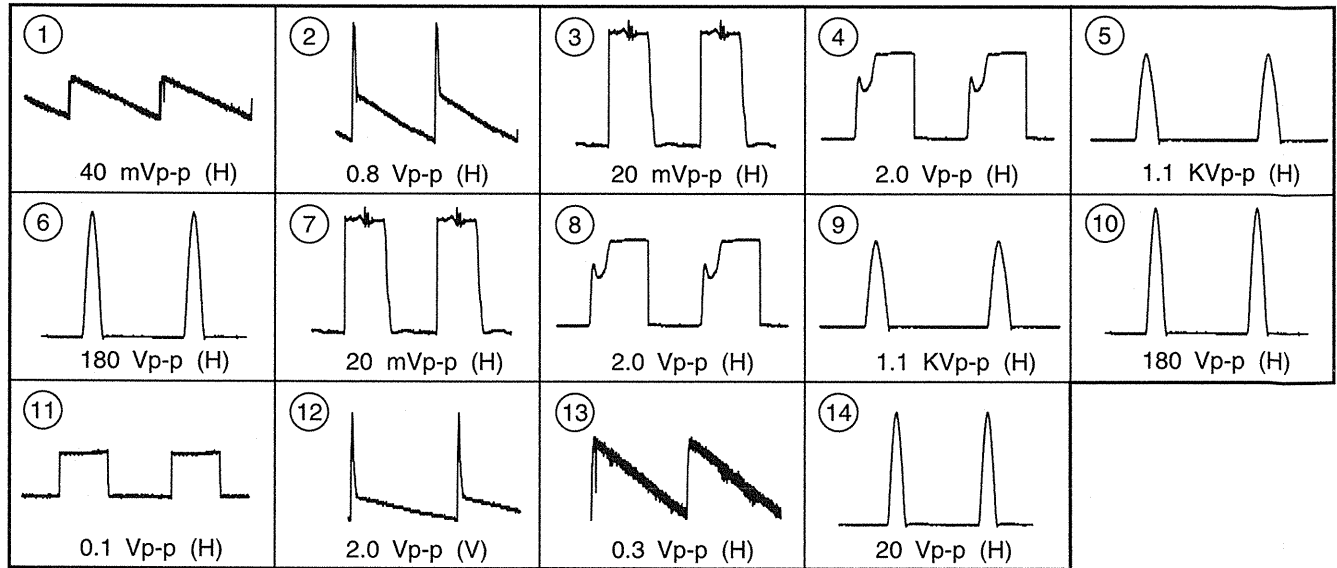


MC-Service

D BOARD * MARK

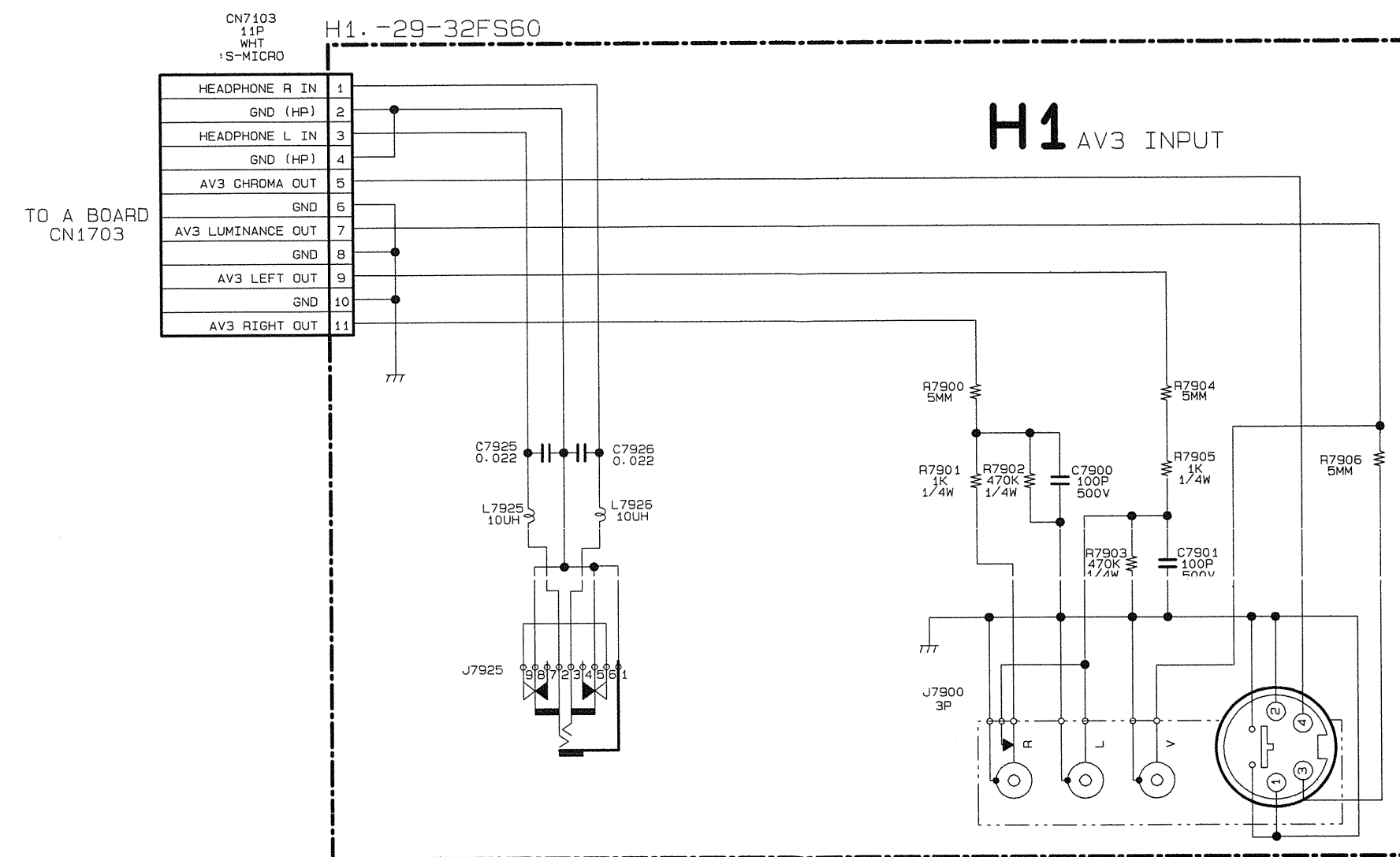
Ref	29FS60A	29FS60B	29FS60D	29FS60E	29FS60K	29FS60R	29FS60U	32FS60A	32FS60B	32FS60D	32FS60E
C6682	22MF	22MF	22MF	22MF	22MF	22MF	22MF	-	-	-	-
C6813	100PF	100PF	100PF	100PF	100PF	100PF	100PF	470PF	470PF	470PF	470PF
C6826	0.47MF	0.47MF	0.47MF	0.47MF	0.47MF	0.47MF	0.47MF	0.56MF	0.56MF	0.56MF	0.56MF
C6827	0.12MF	0.12MF	0.12MF	0.12MF	0.12MF	0.12MF	0.12MF	0.1MF	0.1MF	0.1MF	0.1MF
L6601	2.2MMH	2.2MMH	2.2MMH	2.2MMH	2.2MMH	2.2MMH	2.2MMH	JW (5.0MM)	JW (5.0MM)	JW (5.0MM)	JW (5.0MM)
R6635	0.47	0.47	0.47	0.47	0.47	0.47	0.47	JW (5.0MM)	JW (5.0MM)	JW (5.0MM)	JW (5.0MM)
R6610	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.9K	3.9K	3.9K	3.9K
R6813	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K	3.3K
R6837	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K
R6839	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K	2.2K
R6856	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	6.8K	6.8K	6.8K	6.8K
R6857	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	5.6K	6.8K	6.8K	6.8K	6.8K

Waveforms D Board

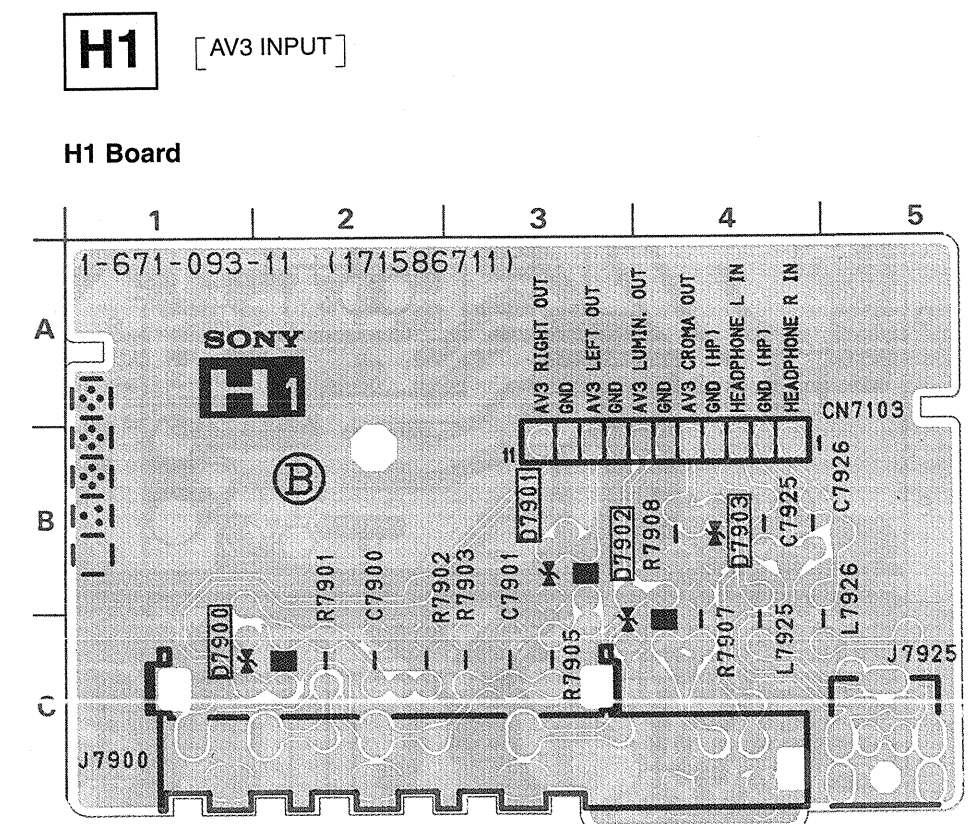




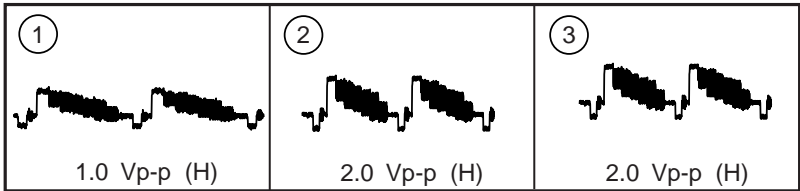
IC		D6613	D - 12
IC6600	F - 9	D6615	C - 12
IC6604	H - 11	D6616	D - 9
IC6651	G - 13	D6617	D - 8
IC6652	A - 7	D6618	B - 11
IC6653	A - 9	D6619	B - 8
IC6654	D - 12	D6620	B - 9
IC6667	E - 14	D6621	B - 12
IC6700	D - 6	D6623	E - 8
IC6801	A - 3	D6624	B - 13
TRANSISTOR		D6625	A - 12
Q6600	J - 6	D6627	A - 10
Q6602	G - 9	D6628	A - 13
Q6603	G - 8	D6629	B - 12
Q6605	D - 12	D6651	I - 13
Q6606	A - 13	D6652	H - 13
Q6607	E - 8	D6653	H - 13
Q6651	E - 13	D6654	G - 12
Q6652	E - 14	D6655	G - 13
Q6667	E - 13	D6656	E - 13
Q6676	D - 13	D6658	H - 13
Q6677	D - 14	D6659	F - 13
Q6678	D - 13	D6676	C - 13
Q6679	C - 13	D6677	C - 13
Q6680	C - 13	D6678	C - 13
Q6681	D - 13	D6679	D - 13
Q6700	C - 6	D6681	E - 13
Q6801	H - 2	D6700	C - 5
Q6802	E - 6	D6701	H - 2
Q6803	F - 2	D6803	B - 3
Q6804	D - 5	D6804	C - 3
Q6805	E - 13	D6805	G - 3
Q6806	D - 3	D6806	H - 3
Q6807	B - 13	D6807	G - 7
Q6809	A - 2	D6808	G - 8
Q6810	A - 2	D6809	B - 13
Q6851	I - 2	D6811	D - 3
DIODE		D6812	B - 2
D6600	J - 7	D6813	B - 2
D6601	J - 7	D6851	H - 2
D6602	J - 6	D6852	I - 2
D6603	D - 12		
D6604	I - 11		
D6610	C - 12		



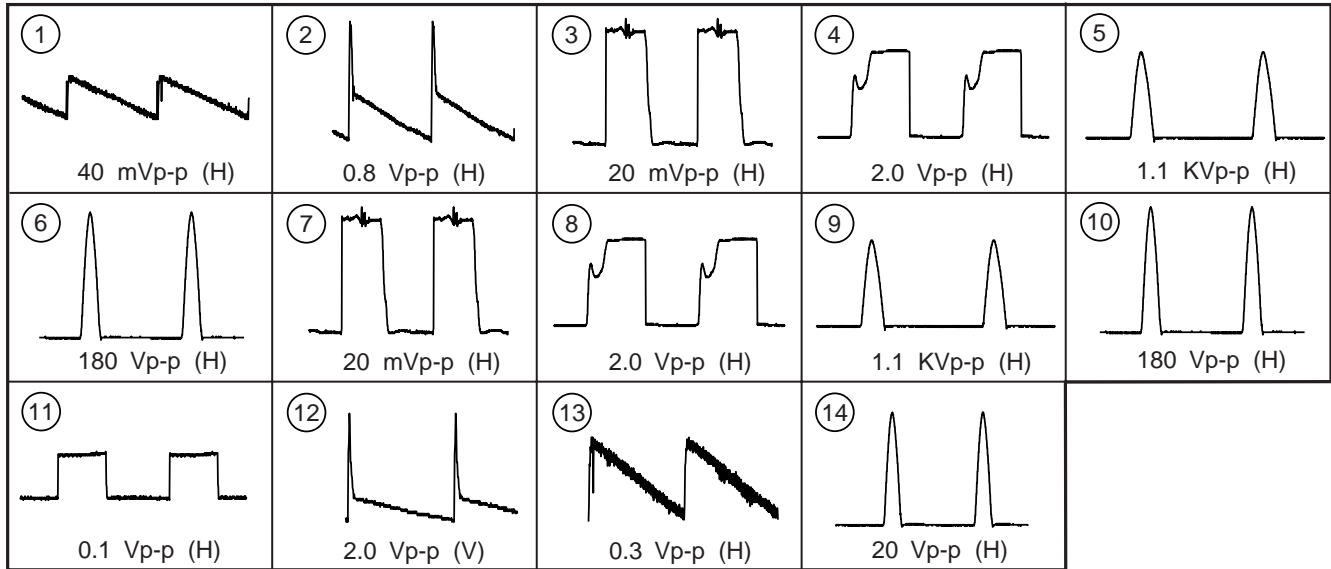
MC-Service



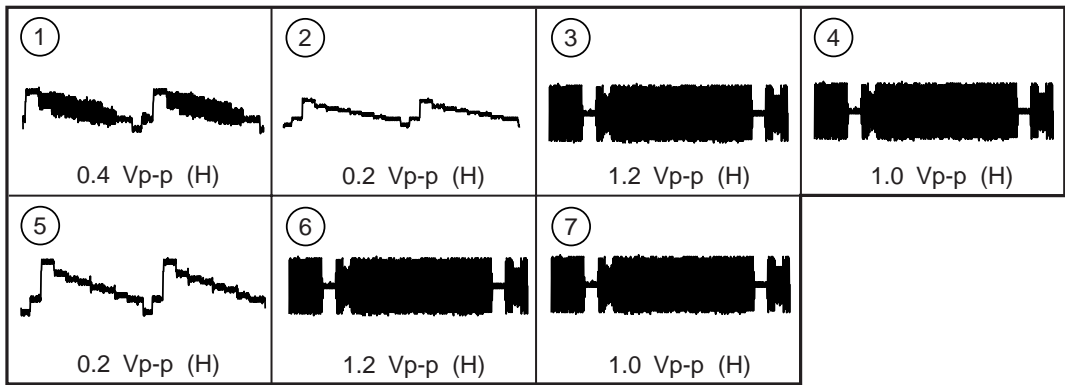
Waveforms A Board



Waveforms D Board

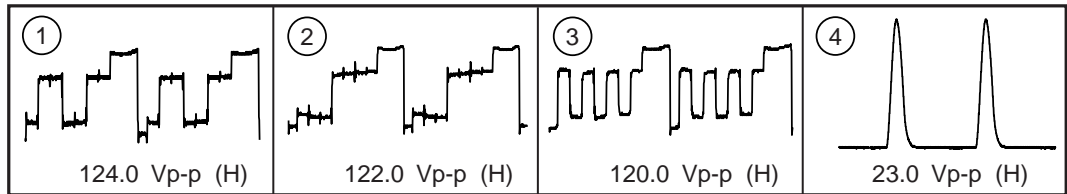


Waveforms J1(1/2) Board



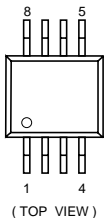
MC-Service

Waveforms C Board

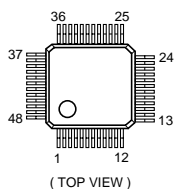


5-4 SEMICONDUCTORS

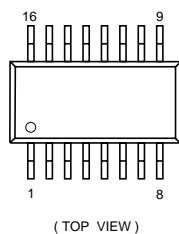
BA7046F
BA7046F-T1
LM393PS-E20
MB3793-42NF
MB3793-42NF-ER
NJM2240M
NJM2240M(TE2)
NJM3404AD



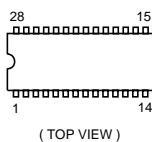
CXA1855Q-T6



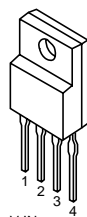
CXA1875AM-T4
HE4094BT
MC14052BDR2
MC74F157ADR2
SN74LS221D
74HCT4046AD/S470



CXD2053S
TDA4780/V3

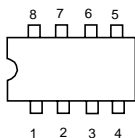


KA78R05TU
KA78R09TU
KA78R33TU

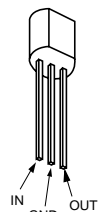


1 : V IN
2 : V OUT
3 : GND
4 : ON/OFF CONTROL

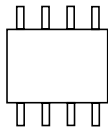
LM393D
M5216P
M24C32-BN6
ST24C16FB6
TDA2822M
UPC393C



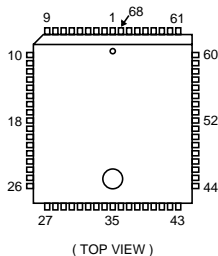
LM78L05ACZ
LM78L12ACZ
L78L05ACZ-AP
L78L12ACZ-AP



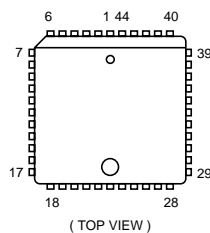
MB3793-42PNF-ER



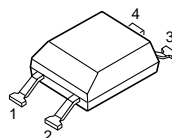
MSP3410D-QA-B4
SAA7185WP
SDA5273P-C134-GEG
SDA5275



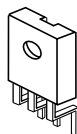
M27C800-100K1



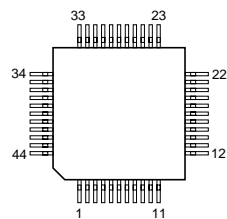
PC123F2
PC123FY2



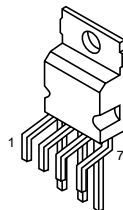
SBX1981-51



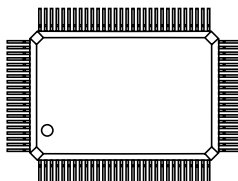
SDA9361



STV9379



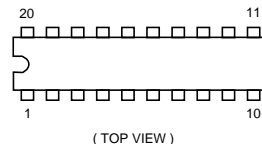
SAB-C161R1-LM



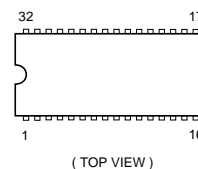
TC55257DFTL-70V-EL



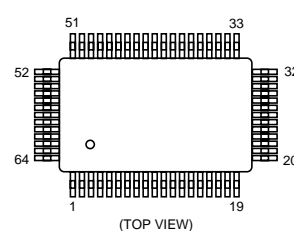
TDA7309D013TR



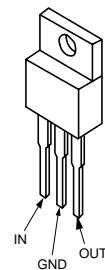
SDA9288X-B121
TDA9143/N2
TDA9144/N2
TDA9170T



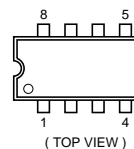
TDA9320H-N1-518



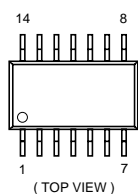
TEA6422DT
LM393N



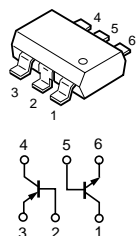
TOP209P



U2860B-BFPG3
74LVC08D



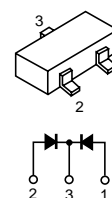
IMZ1A-T109



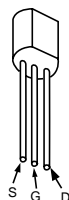
2SC2500-B
2SC2551-O
2SC2551O-TPE2



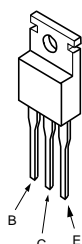
DAN202K
DAN202K-T-146



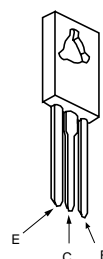
BC546B
BC556B



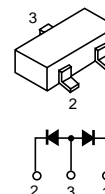
IRF614
IRF620



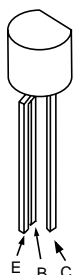
2SC2688-LK
2SC3840K



DAP202K
DAP202K-T-146

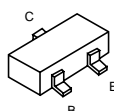


BF199
BF199-AMMO

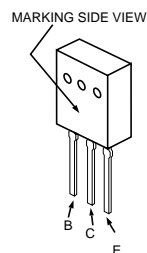


DTA144EK
DTA144EK-T146
DTC114EK
DTC114YKA-T146
DTC123EK
DTC123EK-T146
DTC124EKA-T146

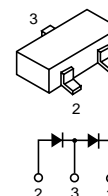
DTC144EK
DTC144EK-T146
2SA1037K-T-146-R
2SA1162-G
2SC2412K-QR
2SC2412K-T-146-R



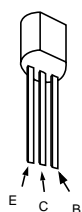
2SC3997CA



DA204K
DA204K-T-146



BF421-AMMO

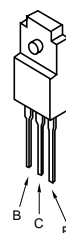


DTA144ESA
DTA144ESA-TP
DTC114ESA-TP
DTC144ESA-TP
2SA1175-HFE
2SA733-K

2SA933AS-RT
2SA933AS-QRT
2SA933S-RT
2SC1740S-RT
2SC2785-HFE

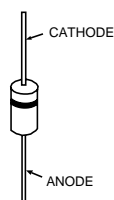


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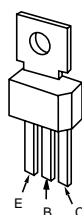


D1NL20-TA
D1NL20U-TR
D1N54-TR
EGP20G
EL1Z
GP08D
GP08DPKG23
R2K-V1

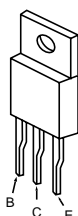
RGP02-20EG23
RGP10GPKG23
RGP15GPKG23
S2LA20F
1SS133T-77
1SS83
1SS83TD



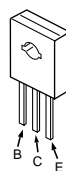
BF87-127



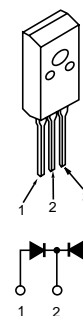
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2SD2396H

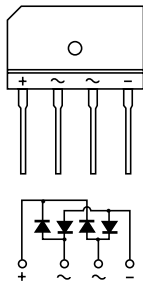


D10SC4M
D10SC6M

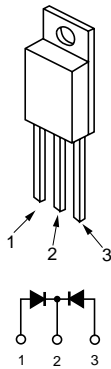


MC-Service

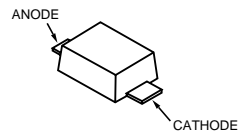
D4SB60L
D4SB60L-F
RBA-402L



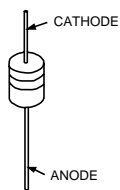
ESAC39M-06C
ESAC39M-06CF38



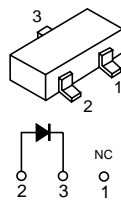
UF4005PKG23



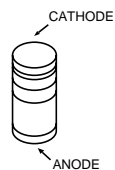
ERA38-06TP1	MTZJ-T-77-5.6B
ERA82-004TP1	MTZJ-T-77-6.8
GP08DPKG23	MTZJ-T-77-7.5B
MTZJ-T-77-12	MTZJ-T-77-9.1
MTZJ-T-77-15	MTZJ-33C
MTZJ-T-77-2.2B	RD5.6ESB2
MTZJ-T-77-22	RD9.1ESB2
MTZJ-T-77-33C	PGKE200AG23
MTZJ-T-77-3.6B	1SS119-25
MTZJ-T-77-4.7B	1SS119-25TD



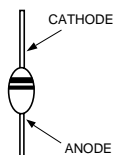
MA3033-L
MA3033L-TX
MA3056M-TX
MA3062M-TX
MA3030-H-(TX)



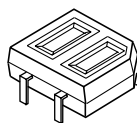
MA3051L-TX



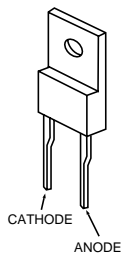
ERC04-06SE



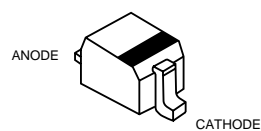
MA73-TX



ERD08M-15



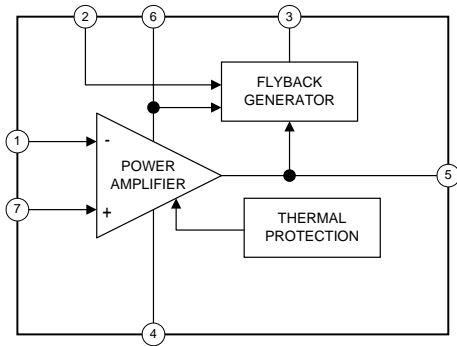
RD12SB2
UDZ-TE-17-6.2B
UDZ-TE-17-6.8B
UDZ-TE-12B



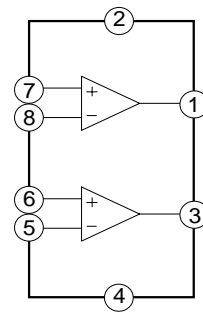
MC-Service

5-5. IC BLOCK DIAGRAMS

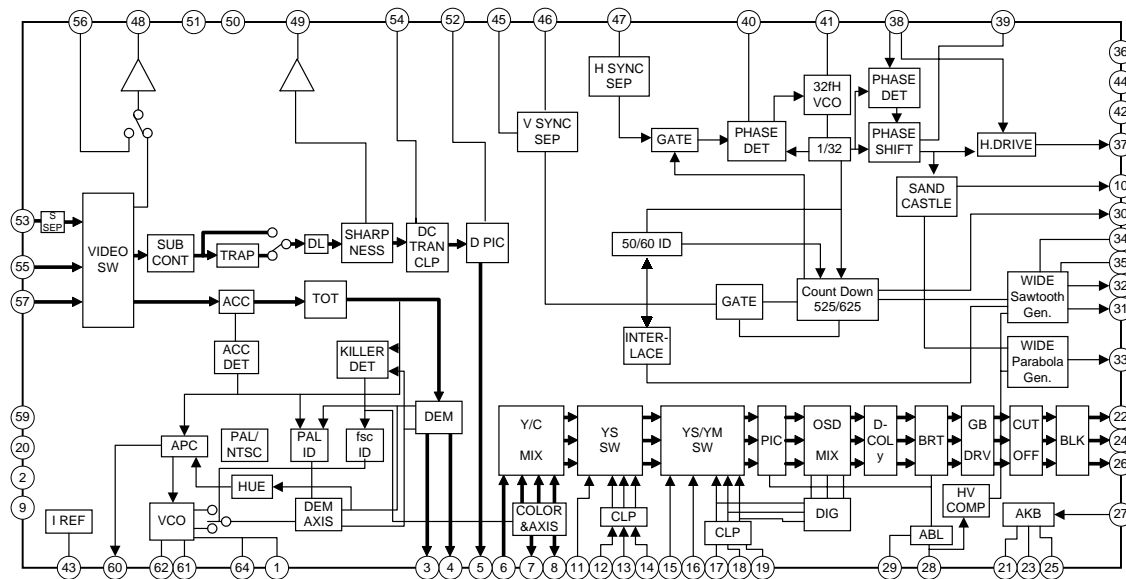
D BOARD IC6700 STV 9379



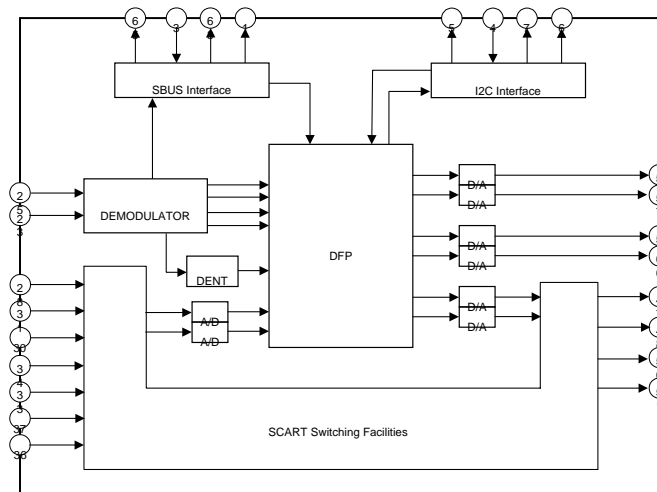
J BOARD IC8101 TDA2822D



E BOARD IC4301 CXA2100Q-TL



J BOARD IC8200 MSP3410D-QA-B4



MC-Service

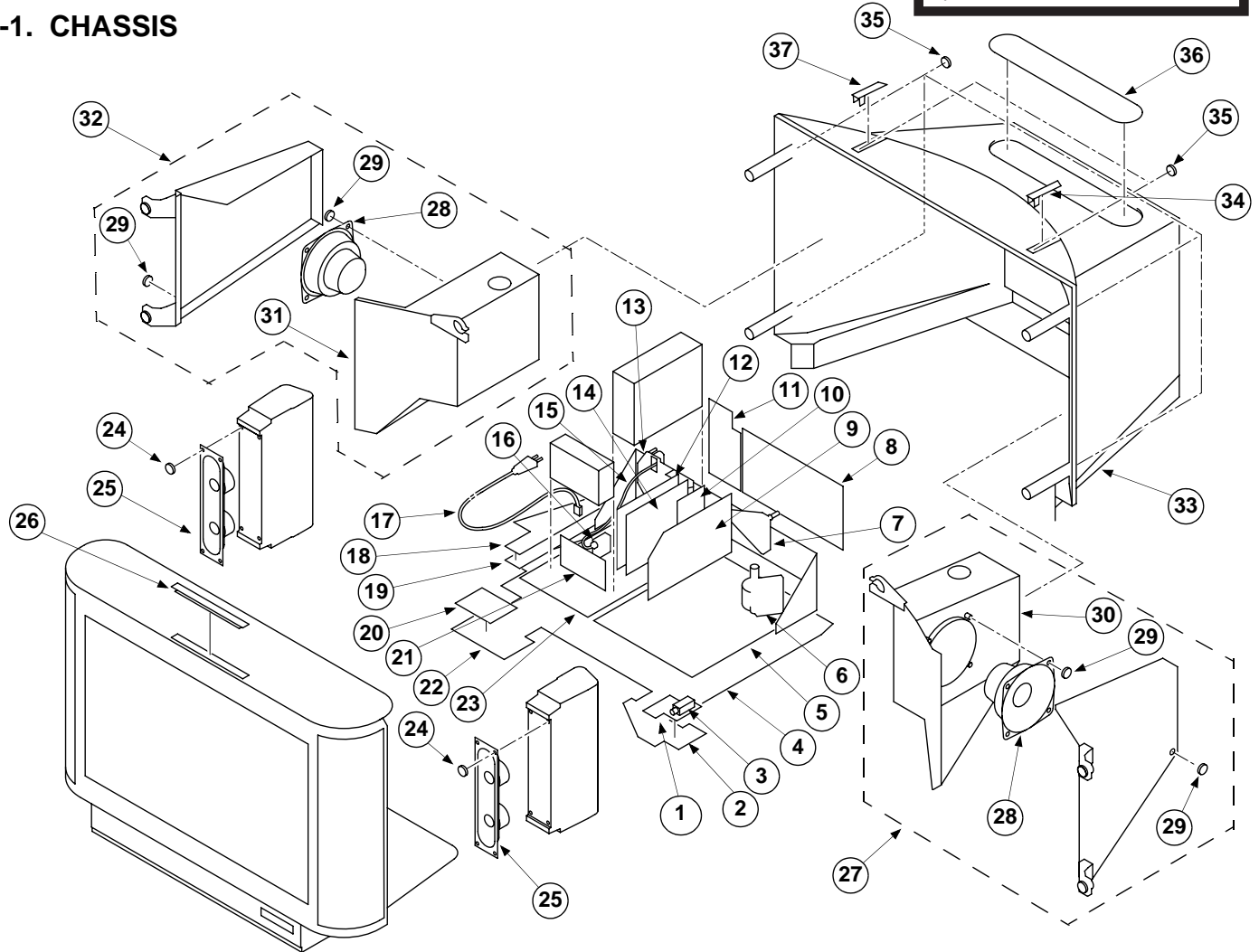
SECTION 6 EXPLODED VIEWS

NOTE :

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and marked Δ are critical for safety. Replace only with the part number specified.

6-1. CHASSIS



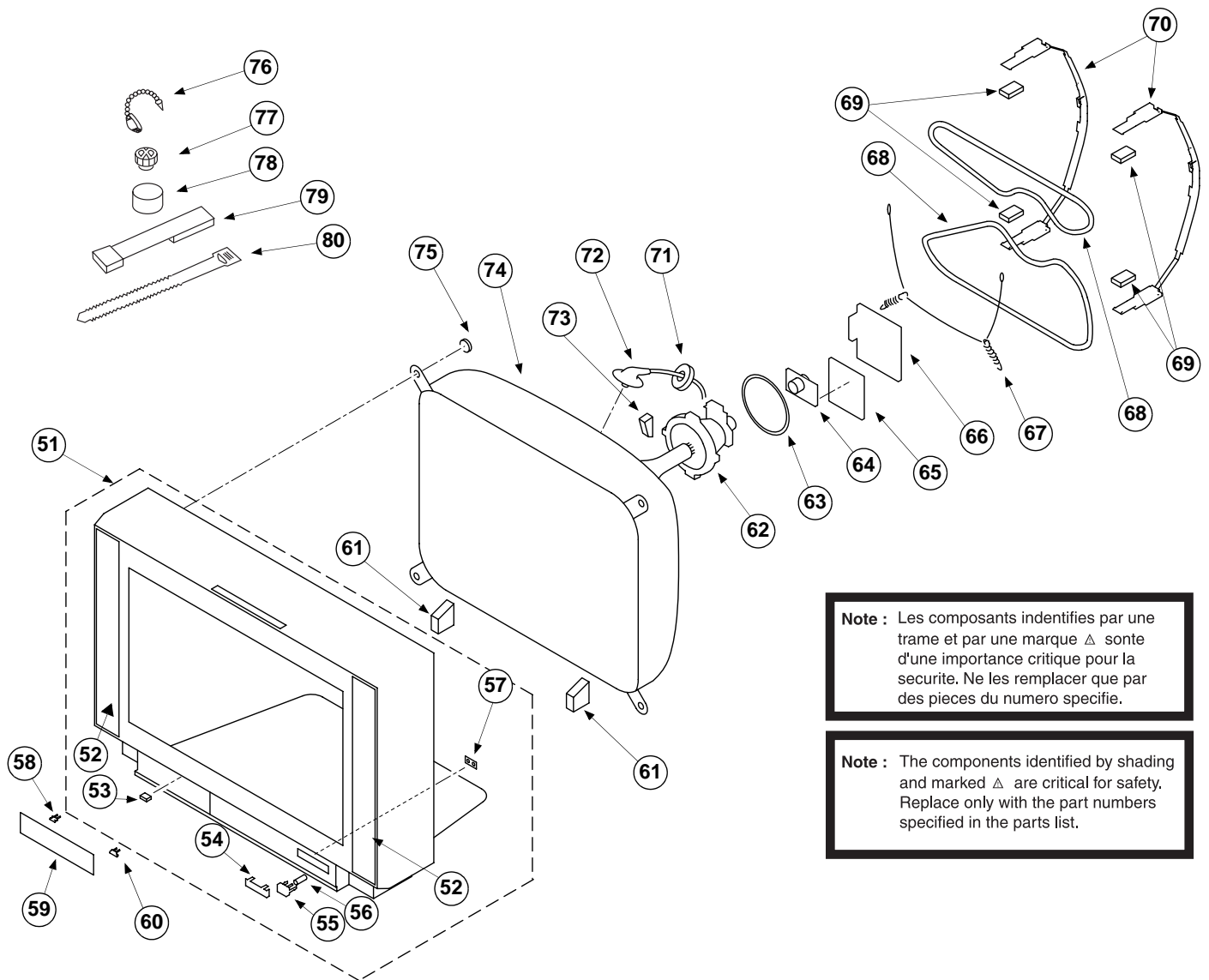
REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
1	*A-1624-073-A	F BOARD, COMPLETE (KV-29FS60)		9	*A-1640-320-A	D1 BOARD, COMPLETE (KV-29FS60)	
	*A-1624-075-A	F BOARD, COMPLETE (KV-32FS60)			*A-1640-325-A	D1 BOARD, COMPLETE (KV-32FS60)	
2	*4-204-551-01	BRACKET, F (KV-29FS60)		10	*A-1640-319-A	E BOARD, COMPLETE (KV-29FS60)	
	*4-204-551-11	BRACKET, F (KV-32FS60)			*A-1640-324-A	E BOARD, COMPLETE (KV-32FS60)	
3	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)		11	*A-1648-018-A	U BOARD, COMPLETE (KV-29FS60)	
4	*1-204-549-01	BRACKET, MAIN			*A-1648-017-A	U BOARD, COMPLETE (KV-32FS60)	
5	*A-1640-342-A	D BOARD (29"), COMPLETE (KV-29FS60)		12	*A-1620-117-A	BP BOARD, COMPLETE (KV-29FS60)	
	*A-1640-326-A	D BOARD (32"), COMPLETE (KV-32FS60)			*A-1620-115-A	BP BOARD, COMPLETE (KV-32FS60)	
6	Δ 1-453-272-11	TRANSFORMER ASSY, FLYBACK (NX-4512/U2B4)		13	4-204-477-01	BRACKET, J2	
7	4-204-476-01	BRACKET, J1		14	*A-1620-116-A	B1 BOARD, COMPLETE (KV-29FS60)	
8	*A-1651-102-A	J BOARD, COMPLETE (KV-29FS60A/29FS60D/ 29FS60E/29FS60K/ 29FS60R/29FS60U)			*A-1620-114-A	B1 BOARD, COMPLETE (KV-32FS60)	
	*A-1651-106-A	J BOARD, COMPLETE (KV-29FS60B)		15	1-790-082-11	CABLE, RF	
	*A-1651-101-A	J BOARD, COMPLETE (KV-32FS60A/32FS60D/ 32FS60E)		16	1-693-338-11	TUNER/VIF (AEP) (KV-29FS60A/29FS60D/29FS60E/29FS60K 29FS60R/32FS60A/32FS60D/32FS60E)	
	*A-1651-107-A	J BOARD, COMPLETE (KV-32FS60B)			1-693-340-11	TUNER/VIF (FR) (KV-29FS60B/32FS60B)	
					1-693-339-11	TUNER/VIF (UK) (KV-29FS60U)	

The components identified by shading and marked **△** are critical for safety
Replace only with the part number specified.

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
17	△ 1-574-062-61	CORD, POWER (WITH CONNECTOR) (KV-29FS60A/29FS60B/29FS60D/29FS60E/29FS60K/ 29FS60R/32FS60A/32FS60B/32FS60D/32FS60E)		24	4-039-358-01	SCREW (4X16), (+) BV TAPPING	
	△ 1-590-762-21	CORD, POWER (WITH UK PLUG) (KV-29FS60U)		25	1-529-153-11	SPEAKER (4.8X20CM)	
18	*A-1624-074-A	F1 BOARD, COMPLETE (KV-29FS60)		26	1-771-599-11	SWITCH, ARRAY	
	*A-1624-076-A	F1 BOARD, COMPLETE (KV-32FS60)		27	A-1678-188-A	WOOFER (R) ASSY	28-30
19	*4-204-552-01	BRACKET, F1		28	1-529-144-11	SPEAKER (13CM)	
20	*A-1646-170-A	H1 BOARD, COMPLETE (KV-29FS60)		29	4-039-355-01	SCREW (4X12), (+) BV TAPPING	
	*A-1646-174-A	H1 BOARD, COMPLETE (KV-32FS60)		30	*A-1678-158-A	WOOFER (R) ASSY, SP FX	
21	*A-1634-049-A	M BOARD, COMPLETE (KV-29FS60)		31	*A-1678-157-A	WOOFER (L) ASSY, SP FX	
	*A-1634-048-A	M BOARD, COMPLETE (KV-32FS60)		32	A-1678-150-A	WOOFER (L) ASSY	28,29,31
22	4-204-550-01	BRACKET, H (KV-29FS60)		33	4-204-508-01	COVER, REAR (KV-29FS60)	
	4-204-550-11	BRACKET, H (KV-32FS60)			4-204-367-11	COVER, REAR (KV-32FS60)	
23	*A-1630-980-A	A BOARD, COMPLETE (KV-29FS60A/29FS60D/29FS60E/ 29FS60K/29FS60R)		34	4-204-460-01	COVER, SCREW (LEFT) (KV-29FS60)	
	*A-1630-993-A	A BOARD, COMPLETE (KV-29FS60B)			4-204-369-01	COVER, SCREW (LEFT) (KV-32FS60)	
	*A-1630-994-A	A BOARD, COMPLETE (KV-29FS60U)		35	4-302-404-03	SCREW (WASHER HEAD) (+P 4X16)	
	*A-1630-979-A	A BOARD, COMPLETE (KV-32FS60A/32FS60D/ 32FS60E)		36	4-204-458-01	COVER, PORT	
	*A-1630-995-A	A BOARD, COMPLETE (KV-32FS60B)		37	4-039-461-01	COVER, SCREW (RIGHT) (KV-29FS60)	
					4-204-370-01	COVER, SCREW (RIGHT) (KV-32FS60)	

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6-2. PICTURE TUBE



REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
51	X-4200-423-1	BEZNET ASSY (KV-29FS60)		61	4-203-098-01	SUPPORTER, CRT (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
	A-1605-585-A	BEZNET ASSY (KV-32FS60)		62	Δ 8-451-504-11	DEFLECTION YOKE Y29RSC-M (KV-29FS60)	
52	4-204-473-01	GRILLE, SPEAKER (KV-29FS60)			Δ 1-451-480-11	DEFLECTION YOKE Y32RVC2 (KV-32FS60)	
	4-204-368-01	GRILLE, SPEAKER (KV-32FS60)		63	1-452-896-11	COIL, NA ROTATION (RT200)	
53	4-042-192-11	CATCHER, PUSH (KV-29FS60)		64	Δ 8-453-011-11	NECK ASSY, NA299-M	
	4-042-192-01	CATCHER, PUSH (KV-32FS60)		65	*A-1644-094-A	VM BOARD, COMPLETE (KV-29FS60)	
54	4-204-492-01	WINDOW, ORNAMENTAL			*A-1644-095-A	VM BOARD, COMPLETE (KV-32FS60)	
55	4-204-438-01	BUTTON, POWER		66	*A-1638-123-A	C BOARD, COMPLETE (KV-29FS60)	
56	4-202-964-11	SPRING			*A-1638-122-A	C BOARD, COMPLETE (KV-32FS60)	
57	4-204-439-01	GUIDE, LIGHT		67	4-200-433-01	SPRING, EXTENSION (KV-29FS60)	
58	4-202-555-01	SHAFT, DOOR			4-369-318-51	SPRING, TENSION (KV-32FS60)	
59	4-204-435-21	DOOR					
60	4-045-250-01	DAMPER					

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The components identified by shading and marked **△** are critical for safety
Replace only with the part number specified.

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
68	△ 1-416-654-11	COIL, DEMAGNETIC (KV-29FS60)		75	4-036-188-01	SCREW, SELF TAPPING (KV-29FS60)	
	△ 1-416-769-11	COIL, DEMAGNETIC (KV-32FS60)			4-203-043-01	SCREW (PT) (KV-32FS60)	
69	*4-202-988-01	CUSHION, BOX		76	4-308-870-00	CLIP, LEAD WIRE	
70	*4-060-802-01	HOLDER, DGC (KV-29FS60)		77	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
	*4-059-569-01	HOLDER, DGC (KV-32FS60)		78	1-425-032-00	MAGNET, DISK; 10MM	
71	3-704-372-01	HOLDER, HV CABLE		79	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
72	△ 1-251-317-31	CAP ASSY, HIGH-VOLTAGE		80	3-701-007-00	BAND, BINDING	
73	3-704-495-01	SPACER, DY					
74	△ 8-735-053-05	PICTURE TUBE (M68LNH060X) (KV-29FS60)					
	△ 8-735-054-05	PICTURE TUBE (W76LLZ060X) (SD-302)					
		(KV-32FS60)					

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SECTION 7 ELECTRICAL PARTS LIST

Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms.
- F : nonflammable.

When indicating parts by reference number, please include the board name.

CAPACITORS
MF : mF, PF : mmF

COILS
MMH : mH , uH

B1

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
	*A-1620-116-A	B1 BOARD, COMPLETE (KV-29FS60) *****		C2335	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
	*A-1620-114-A	B1 BOARD, COMPLETE (KV-32FS60) *****		C2337	1-163-125-00	CERAMIC CHIP 220PF 5% 50V	
		< CAPACITOR >		C2338	1-126-934-11	ELECT 220MF 20% 16V	
C2301	1-126-934-11	ELECT 220MF 20% 16V		C2339	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
C2302	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C2340	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2303	1-126-964-11	ELECT 10MF 20% 50V		C2342	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2304	1-163-125-00	CERAMIC CHIP 220PF 5% 50V		C2343	1-126-961-11	ELECT 2.2MF 20% 50V	
C2305	1-163-259-91	CERAMIC CHIP 220PF 5% 50V		C2344	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2306	1-163-125-00	CERAMIC CHIP 220PF 5% 50V		C2345	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2307	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C2346	1-126-964-11	ELECT 10MF 20% 50V	
C2308	1-163-125-00	CERAMIC CHIP 220PF 5% 50V		C2347	1-163-097-00	CERAMIC CHIP 15PF 5% 50V	
C2309	1-126-934-11	ELECT 220MF 20% 16V		C2348	1-163-097-00	CERAMIC CHIP 15PF 5% 50V	
C2311	1-126-963-11	ELECT 4.7MF 20% 50V		C2349	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2312	1-126-963-11	ELECT 4.7MF 20% 50V		C2350	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2313	1-126-963-11	ELECT 4.7MF 20% 50V		C2351	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2314	1-163-141-00	CERAMIC CHIP 0.001MF 5% 50V		C2354	1-126-934-11	ELECT 220MF 20% 16V	
C2315	1-164-489-11	CERAMIC CHIP 0.22MF 10% 16V		C2356	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2316	1-110-501-11	CERAMIC CHIP 0.33MF 10% 16V		C2357	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2317	1-162-638-11	CERAMIC CHIP 1MF 16V		C2358	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2318	1-163-989-11	CERAMIC CHIP 0.033MF 10% 25V		C2361	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2319	1-163-989-11	CERAMIC CHIP 0.033MF 10% 25V		C2362	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2320	1-164-489-11	CERAMIC CHIP 0.22MF 10% 16V		C2363	1-126-934-11	ELECT 220MF 20% 16V	
C2323	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V		C2364	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C2324	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C2366	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C2325	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C2367	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2327	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C2368	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2328	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C2371	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C2329	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C2372	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2330	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C2374	1-163-239-11	CERAMIC CHIP 33PF 5% 50V	
C2331	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V		C2377	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2332	1-163-105-00	CERAMIC CHIP 33PF 5% 50V		C2378	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
C2333	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V (KV-32FS60A/32FS60B/32FS60D/32FS60E)		C2380	1-163-145-00	CERAMIC CHIP 0.0015MF 5% 50V	
C2334	1-126-964-11	ELECT 10MF 20% 50V		C2381	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
				C2382	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
				C2383	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
				C2385	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
				C2387	1-136-250-11	FILM 0.001MF 2% 100V	

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C2388	1-136-479-11	FILM 0.001MF	1% 100V	< RESISTOR >			
C2389	1-163-085-00	CERAMIC CHIP 2PF	0.25PF 50V	R2300	1-216-051-00	RES,CHIP 1.2K 5%	1/10W
C2390	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	R2301	1-216-053-00	RES,CHIP 1.5K 5%	1/10W
C2391	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	R2302	1-216-067-00	RES,CHIP 5.6K 5%	1/10W
C2704	1-126-934-11	ELECT 220MF	20% 16V	R2303	1-216-059-00	RES,CHIP 2.7K 5%	1/10W
C2705	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R2304	1-216-051-00	RES,CHIP 1.2K 5%	1/10W
< CONNECTOR >				R2305	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
CN2100	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		R2306	1-216-295-91	SHORT 0	
< FILTER >				R2307	1-216-049-91	RES,CHIP 1K 5%	1/10W
FL2300	1-236-071-11	ENCAPSULATED COMPONENT		R2310	1-216-049-91	RES,CHIP 1K 5%	1/10W
FL2301	1-233-767-21	FILTER		R2312	1-216-049-91	RES,CHIP 1K 5%	1/10W
FL2302	1-236-071-11	ENCAPSULATED COMPONENT		R2313	1-216-047-91	RES,CHIP 820 5%	1/10W
FL2303	1-236-071-11	ENCAPSULATED COMPONENT		R2314	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
FL2305	1-236-071-11	ENCAPSULATED COMPONENT		R2315	1-216-113-00	RES,CHIP 470K 5%	1/10W
< IC >				R2316	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC2300	8-759-991-41	IC LM78L05ACZ		R2317	1-216-025-91	RES,CHIP 100 5%	1/10W
IC2301	8-759-295-09	IC TLC2932IPW		R2320	1-216-295-91	SHORT 0	
IC2302	8-759-257-59	IC TDA8755T-T		R2321	1-216-295-91	SHORT 0	
IC2303	8-759-438-64	IC SAA4952WP/V1		R2334	1-233-574-11	RES, CHIP NETWORK 10 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
IC2304	8-759-546-02	IC SAA4955WP-V1-T3 (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R2335	1-233-574-11	RES, CHIP NETWORK 10 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
IC2305	8-759-295-09	IC TLC2932IPW		R2336	1-233-574-11	RES, CHIP NETWORK 10 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
IC2306	8-759-439-27	IC TMS4C2972-26DTR		R2337	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC2307	8-759-546-04	IC SAA4991WP-V1-T3		R2338	1-216-295-91	SHORT 0	
IC2309	8-759-439-27	IC TMS4C2972-28DTR		R2341	1-216-295-91	SHORT 0 (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
IC2310	8-759-991-41	IC LM78L05ACZ		R2342	1-216-295-91	SHORT 0 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
IC2311	8-759-467-19	IC SDA9280B22		R2345	1-216-025-91	RES,CHIP 100 5%	1/10W
IC2314	8-759-439-26	IC SN74LS221D		R2348	1-216-089-91	RES,CHIP 47K 5%	1/10W
< COIL >				R2354	1-216-295-91	SHORT 0 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
L2300	1-408-597-31	INDUCTOR 3.3UH		R2355	1-216-295-91	SHORT 0 (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
L2301	1-410-435-21	INDUCTOR 220UH		R2356	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
L2302	1-410-435-21	INDUCTOR 220UH		R2358	1-216-295-91	SHORT 0	
L2303	1-408-597-31	INDUCTOR 3.3UH (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R2359	1-216-001-00	RES,CHIP 10 5%	1/10W
L2304	1-414-186-31	INDUCTOR 33UH		R2360	1-216-085-00	RES,CHIP 33K 5%	1/10W
L2305	1-408-603-31	INDUCTOR 10UH		R2361	1-216-085-00	RES,CHIP 33K 5%	1/10W
L2306	1-414-186-31	INDUCTOR 33UH		R2364	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
L2307	1-414-384-11	INDUCTOR 5.6UH		R2365	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
< TRANSISTOR >				R2366	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
Q2301	1-801-806-11	TRANSISTOR DTC144EKA-T146		R2367	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
Q2302	1-801-806-11	TRANSISTOR DTC144EKA-T146		R2368	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
Q2303	1-801-806-11	TRANSISTOR DTC144EKA-T146					
Q2304	1-801-806-11	TRANSISTOR DTC144EKA-T146					
Q2305	8-729-216-22	TRANSISTOR 2SA1162-G					
Q2306	8-729-216-22	TRANSISTOR 2SA1162-G					
Q2307	8-729-216-22	TRANSISTOR 2SA1162-G					

REF.NO.	PART.NO	DESCRIPTION	REMARK			REF.NO.	PART.NO	DESCRIPTION	REMARK		
R2369	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R2723	1-216-027-00	RES,CHIP	120	5%	1/10W
R2370	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R2724	1-216-295-91	SHORT	0		
R2371	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R2725	1-216-021-00	RES,CHIP	68	5%	1/10W
R2372	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	R2726	1-216-295-91	SHORT	0		
R2373	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R2727	1-216-295-91	SHORT	0		
R2374	1-216-049-91	RES,CHIP	1K	5%	1/10W	R2734	1-216-295-91	SHORT	0		
R2375	1-216-049-91	RES,CHIP	1K	5%	1/10W	R2735	1-216-021-00	RES,CHIP	68	5%	1/10W
R2376	1-216-049-91	RES,CHIP	1K	5%	1/10W	R2736	1-216-295-91	SHORT	0		
R2377	1-216-049-91	RES,CHIP	1K	5%	1/10W	R2738	1-216-025-91	RES,CHIP	100	5%	1/10W
R2378	1-216-029-00	RES,CHIP	150	5%	1/10W	< CRYSTAL >					
R2379	1-216-076-00	RES,CHIP	13K	5%	1/10W	X2300	1-579-175-11	VIBRATOR, CERAMIC			
R2380	1-216-073-00	RES,CHIP	10K	5%	1/10W	*****					
R2381	1-216-021-00	RES,CHIP	68	5%	1/10W	*A-1620-117-A BP BOARD, COMPLETE (KV-29FS60)					
R2382	1-216-049-91	RES,CHIP	1K	5%	1/10W	*****					
R2383	1-216-049-91	RES,CHIP	1K	5%	1/10W	*A-1620-115-A BP BOARD, COMPLETE (KV-32FS60)					
R2384	1-216-021-00	RES,CHIP	68	5%	1/10W	*****					
R2385	1-216-037-00	RES,CHIP	330	5%	1/10W	< CAPACITOR >					
R2386	1-216-295-91	SHORT	0			C300	1-164-222-11	CERAMIC CHIP 0.22MF			25V
R2387	1-216-027-00	RES,CHIP	120	5%	1/10W	C301	1-164-222-11	CERAMIC CHIP 0.22MF			25V
R2388	1-216-037-00	RES,CHIP	330	5%	1/10W	C302	1-164-222-11	CERAMIC CHIP 0.22MF			25V
R2389	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	C303	1-164-222-11	CERAMIC CHIP 0.22MF			25V
R2390	1-216-049-91	RES,CHIP	1K	5%	1/10W	C304	1-164-222-11	CERAMIC CHIP 0.22MF			25V
R2391	1-216-025-91	RES,CHIP	100	5%	1/10W	C305	1-126-967-11	ELECT	47MF	20%	50V
R2392	1-216-295-91	SHORT	0			C306	1-126-967-11	ELECT	47MF	20%	50V
R2393	1-216-295-91	SHORT	0			C307	1-126-967-11	ELECT	47MF	20%	50V
R2394	1-216-295-91	SHORT	0			C308	1-126-964-11	ELECT	10MF	20%	50V
R2395	1-216-295-91	SHORT	0			C309	1-163-038-91	CERAMIC CHIP 0.1MF			25V
R2396	1-216-295-91	SHORT	0			C310	1-163-038-91	CERAMIC CHIP 0.1MF			25V
R2397	1-216-295-91	SHORT	0			C311	1-163-259-91	CERAMIC CHIP 220PF		5%	50V
R2398	1-216-295-91	SHORT	0			C312	1-163-259-91	CERAMIC CHIP 220PF		5%	50V
R2410	1-216-037-00	RES,CHIP	330	5%	1/10W	C313	1-163-259-91	CERAMIC CHIP 220PF		5%	50V
R2411	1-216-037-00	RES,CHIP	330	5%	1/10W	C314	1-163-259-91	CERAMIC CHIP 220PF		5%	50V
R2412	1-216-667-11	METAL CHIP	4.7K	0.50%	1/10W	C315	1-126-964-11	ELECT	10MF	20%	50V
R2413	1-216-664-11	METAL CHIP	3.6K	0.50%	1/10W	C316	1-163-038-91	CERAMIC CHIP 0.1MF			25V
R2415	1-216-295-91	SHORT	0		(KV-32FS60A/32FS60B/32FS60D/32FS60E)	C317	1-163-038-91	CERAMIC CHIP 0.1MF			25V
R2416	1-216-295-91	SHORT	0		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	C318	1-163-259-91	CERAMIC CHIP 220PF		5%	50V
R2711	1-216-001-00	RES,CHIP	10	5%	1/10W	C319	1-163-259-91	CERAMIC CHIP 220PF		5%	50V
R2712	1-216-295-91	SHORT	0			C320	1-126-967-11	ELECT	47MF	20%	50V
R2713	1-216-295-91	SHORT	0			C321	1-126-967-11	ELECT	47MF	20%	50V
R2714	1-216-295-91	SHORT	0			C322	1-126-967-11	ELECT	47MF	20%	50V
R2715	1-216-295-91	SHORT	0			C323	1-163-038-91	CERAMIC CHIP 0.1MF			25V
R2716	1-216-295-91	SHORT	0			C324	1-163-259-91	CERAMIC CHIP 220PF		5%	50V
R2717	1-216-295-91	SHORT	0			C325	1-163-259-91	CERAMIC CHIP 220PF		5%	50V
R2718	1-216-295-91	SHORT	0			C326	1-163-038-91	CERAMIC CHIP 0.1MF			25V
R2719	1-216-295-91	SHORT	0			C327	1-163-038-91	CERAMIC CHIP 0.1MF			25V
R2720	1-216-295-91	SHORT	0			C328	1-126-964-11	ELECT	10MF	20%	50V
R2721	1-216-295-91	SHORT	0			C329	1-126-964-11	ELECT	10MF	20%	50V
R2722	1-216-295-91	SHORT	0								

REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
C331	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C384	1-126-964-11	ELECT 10MF	20% 50V
C332	1-126-964-11	ELECT 10MF	20% 50V	C385	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C333	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C386	1-126-964-11	ELECT 10MF	20% 50V
C334	1-126-964-11	ELECT 10MF	20% 50V	C387	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C335	1-126-964-11	ELECT 10MF	20% 50V	C388	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C336	1-126-964-11	ELECT 10MF	20% 50V	C389	1-126-964-11	ELECT 10MF	20% 50V
C337	1-126-964-11	ELECT 10MF	20% 50V	C391	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C338	1-126-964-11	ELECT 10MF	20% 50V	C392	1-126-964-11	ELECT 10MF	20% 50V
C339	1-126-964-11	ELECT 10MF	20% 50V	C393	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C340	1-126-964-11	ELECT 10MF	20% 50V	C394	1-126-964-11	ELECT 10MF	20% 50V
C341	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	C395	1-126-933-11	ELECT 100MF	20% 16V
C342	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C396	1-126-933-11	ELECT 100MF	20% 16V
C343	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C397	1-126-933-11	ELECT 100MF	20% 16V
C344	1-126-964-11	ELECT 10MF	20% 50V	C398	1-163-239-11	CERAMIC CHIP 33PF	5% 50V
C345	1-126-964-11	ELECT 10MF	20% 50V	C399	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C346	1-126-964-11	ELECT 10MF	20% 50V	C400	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C347	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C401	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C348	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C402	1-126-964-11	ELECT 10MF	20% 50V
C349	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C403	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C350	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C404	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C351	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C405	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C352	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C406	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C353	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C407	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C354	1-163-038-91	CERAMIC CHIP 0.1MF	25V	C408	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C355	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C409	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C357	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V	C410	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C358	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	< CONNECTOR >			
C359	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V	CN300	1-695-300-11	CONNECTOR, BOARD TO BOARD 20P	
C361	1-163-038-91	CERAMIC CHIP 0.1MF	25V	CN301	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P	
C362	1-163-038-91	CERAMIC CHIP 0.1MF	25V	< FILTER >			
C363	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL300	1-233-505-21	FILTER, LOW PASS	
C364	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL301	1-233-505-21	FILTER, LOW PASS	
C365	1-126-964-11	ELECT 10MF	20% 50V	FL302	1-236-071-11	ENCAPSULATED COMPONENT	
C366	1-126-964-11	ELECT 10MF	20% 50V	FL303	1-236-071-11	ENCAPSULATED COMPONENT	
C367	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL304	1-236-071-11	ENCAPSULATED COMPONENT	
C368	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL305	1-233-446-11	FILTER, LOW PASS	
C369	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL306	1-233-446-11	FILTER, LOW PASS	
C370	1-163-038-91	CERAMIC CHIP 0.1MF	25V	FL307	1-233-446-11	FILTER, LOW PASS	
C371	1-163-038-91	CERAMIC CHIP 0.1MF	25V	< IC >			
C372	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC300	8-752-067-36	IC CXA1815S	
C373	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC301	8-759-485-79	IC TC7SET08FU (TE85L)	
C374	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC302	8-759-295-09	IC TLC2932IPW	
C375	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC303	8-752-392-55	IC CXD2079Q	
C376	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC304	8-759-295-09	IC TLC2932IPW	
C377	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC305	8-759-485-79	IC TC7SET08FU (TE85L)	
C378	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC306	8-759-467-22	IC MSM548331TS-K	
C379	1-163-038-91	CERAMIC CHIP 0.1MF	25V	IC307	8-759-467-22	IC MSM548331TS-K	
C380	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	IC308	8-759-485-79	IC TC7SET08FU (TE85L)	
C381	1-163-038-91	CERAMIC CHIP 0.1MF	25V				
C382	1-163-038-91	CERAMIC CHIP 0.1MF	25V				
C383	1-163-099-00	CERAMIC CHIP 18PF	5% 50V				

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
IC309	8-759-295-09	IC TLC2932IPW		Q322	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC311	8-759-062-66	IC TC7S66F		Q324	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC312	8-759-062-66	IC TC7S66F		Q325	8-729-620-06	TRANSISTOR 2SC3052-EF	
< COIL >				Q326	8-729-216-22	TRANSISTOR 2SA1162-G	
L300	1-412-029-11	INDUCTOR CHIP 10UH		Q327	8-729-216-22	TRANSISTOR 2SA1162-G	
L301	1-410-435-21	INDUCTOR 220UH		Q328	8-729-216-22	TRANSISTOR 2SA1162-G	
L302	1-410-435-21	INDUCTOR 220UH		Q329	1-801-806-11	TRANSISTOR DTC144EKA-T146	
L303	1-412-029-11	INDUCTOR CHIP 10UH		< RESISTOR >			
L304	1-410-435-21	INDUCTOR 220UH		R300	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L305	1-410-435-21	INDUCTOR 220UH		R301	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L306	1-412-029-11	INDUCTOR CHIP 10UH		R302	1-216-642-11	METAL CHIP 430 0.50% 1/10W	
L307	1-412-029-11	INDUCTOR CHIP 10UH		R303	1-216-045-00	RES,CHIP 680 5% 1/10W	
L308	1-412-029-11	INDUCTOR CHIP 10UH		R304	1-216-045-00	RES,CHIP 680 5% 1/10W	
L309	1-412-029-11	INDUCTOR CHIP 10UH		R305	1-216-656-11	METAL CHIP 1.6K 0.50% 1/10W	
L311	1-412-029-11	INDUCTOR CHIP 10UH		R306	1-216-037-00	RES,CHIP 330 5% 1/10W	
L312	1-412-029-11	INDUCTOR CHIP 10UH		R307	1-216-037-00	RES,CHIP 330 5% 1/10W	
L313	1-412-029-11	INDUCTOR CHIP 10UH		R308	1-216-643-11	METAL CHIP 470 0.50% 1/10W	
L314	1-412-029-11	INDUCTOR CHIP 10UH		R309	1-216-045-00	RES,CHIP 680 5% 1/10W	
L315	1-412-029-11	INDUCTOR CHIP 10UH		R310	1-216-045-00	RES,CHIP 680 5% 1/10W	
L316	1-412-029-11	INDUCTOR CHIP 10UH		R311	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
L317	1-412-029-11	INDUCTOR CHIP 10UH		R312	1-216-654-11	METAL CHIP 1.3K 0.50% 1/10W	
L318	1-412-029-11	INDUCTOR CHIP 10UH		R313	1-216-037-00	RES,CHIP 330 5% 1/10W	
L319	1-412-029-11	INDUCTOR CHIP 10UH		R314	1-216-037-00	RES,CHIP 330 5% 1/10W	
L320	1-412-029-11	INDUCTOR CHIP 10UH		R315	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
L321	1-412-004-31	INDUCTOR CHIP 6.8UH		R316	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
L322	1-412-004-31	INDUCTOR CHIP 6.8UH		R317	1-216-049-91	RES,CHIP 1K 5% 1/10W	
L323	1-412-004-31	INDUCTOR CHIP 6.8UH		R318	1-216-049-91	RES,CHIP 1K 5% 1/10W	
< TRANSISTOR >				R319	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q300	8-729-620-06	TRANSISTOR 2SC3052-EF		R320	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q301	8-729-620-06	TRANSISTOR 2SC3052-EF		R321	1-216-041-00	RES,CHIP 470 5% 1/10W	
Q302	8-729-620-06	TRANSISTOR 2SC3052-EF		R322	1-216-041-00	RES,CHIP 470 5% 1/10W	
Q303	8-729-620-06	TRANSISTOR 2SC3052-EF		R323	1-216-041-00	RES,CHIP 470 5% 1/10W	
Q304	8-729-620-06	TRANSISTOR 2SC3052-EF		R324	1-216-017-91	RES,CHIP 47 5% 1/10W	
Q305	8-729-620-06	TRANSISTOR 2SC3052-EF		R325	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		R326	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W	
Q307	8-729-216-22	TRANSISTOR 2SA1162-G		R327	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		R328	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q309	8-729-216-22	TRANSISTOR 2SA1162-G		R329	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q310	1-801-806-11	TRANSISTOR DTC144EKA-T146		R330	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q311	8-729-216-22	TRANSISTOR 2SA1162-G		R331	1-216-025-91	RES,CHIP 100 5% 1/10W	
Q312	8-729-216-22	TRANSISTOR 2SA1162-G		R332	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q313	8-729-216-22	TRANSISTOR 2SA1162-G		R333	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q314	8-729-216-22	TRANSISTOR 2SA1162-G		R336	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
Q315	8-729-620-06	TRANSISTOR 2SC3052-EF		R337	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q316	8-729-216-22	TRANSISTOR 2SA1162-G		R338	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q317	8-729-620-06	TRANSISTOR 2SC3052-EF		R339	1-216-623-11	METAL CHIP 68 0.50% 1/10W	
Q318	8-729-216-22	TRANSISTOR 2SA1162-G		R340	1-216-623-11	METAL CHIP 68 0.50% 1/10W	
Q319	8-729-216-22	TRANSISTOR 2SA1162-G		R341	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q320	8-729-620-06	TRANSISTOR 2SC3052-EF		R342	1-216-623-11	METAL CHIP 68 0.50% 1/10W	
				R343	1-216-623-11	METAL CHIP 68 0.50% 1/10W	



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R344	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R406	1-216-017-91	RES,CHIP	47 5% 1/10W
R345	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R407	1-216-025-91	RES,CHIP	100 5% 1/10W
R346	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R408	1-216-017-91	RES,CHIP	47 5% 1/10W
R347	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R409	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R351	1-216-049-91	RES,CHIP	1K 5% 1/10W	R410	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R352	1-216-025-91	RES,CHIP	100 5% 1/10W	R411	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R353	1-216-049-91	RES,CHIP	1K 5% 1/10W	R412	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R357	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R413	1-216-041-00	RES,CHIP	470 5% 1/10W
R358	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R414	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R359	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R415	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R360	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R417	1-216-117-00	RES,CHIP	680K 5% 1/10W
R361	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R418	1-216-033-00	RES,CHIP	220 5% 1/10W
R362	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R419	1-216-037-00	RES,CHIP	330 5% 1/10W
R363	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R420	1-216-033-00	RES,CHIP	220 5% 1/10W
R364	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R421	1-216-037-00	RES,CHIP	330 5% 1/10W
R365	1-216-623-11	METAL CHIP	68 0.50% 1/10W	R422	1-216-017-91	RES,CHIP	47 5% 1/10W
R368	1-216-025-91	RES,CHIP	100 5% 1/10W	R423	1-216-017-91	RES,CHIP	47 5% 1/10W
R369	1-216-025-91	RES,CHIP	100 5% 1/10W	R424	1-216-017-91	RES,CHIP	47 5% 1/10W
R371	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R425	1-216-017-91	RES,CHIP	47 5% 1/10W
R372	1-216-049-91	RES,CHIP	1K 5% 1/10W	R426	1-216-017-91	RES,CHIP	47 5% 1/10W
R373	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R427	1-216-017-91	RES,CHIP	47 5% 1/10W
R374	1-216-033-00	RES,CHIP	220 5% 1/10W	R429	1-216-295-91	SHORT	0
R375	1-216-037-00	RES,CHIP	330 5% 1/10W	R431	1-216-029-00	RES,CHIP	150 5% 1/10W
R376	1-216-117-00	RES,CHIP	680K 5% 1/10W	R432	1-216-029-00	RES,CHIP	150 5% 1/10W
R377	1-216-041-00	RES,CHIP	470 5% 1/10W	R433	1-216-029-00	RES,CHIP	150 5% 1/10W
R378	1-216-041-00	RES,CHIP	470 5% 1/10W	R434	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R379	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R436	1-216-049-91	RES,CHIP	1K 5% 1/10W
R380	1-216-033-00	RES,CHIP	220 5% 1/10W	R438	1-216-041-00	RES,CHIP	470 5% 1/10W
R381	1-216-117-00	RES,CHIP	680K 5% 1/10W	R439	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W
R382	1-216-037-00	RES,CHIP	330 5% 1/10W	R440	1-216-049-91	RES,CHIP	1K 5% 1/10W
R383	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R441	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R385	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W	R442	1-216-041-00	RES,CHIP	470 5% 1/10W
R386	1-216-025-91	RES,CHIP	100 5% 1/10W	R444	1-216-049-91	RES,CHIP	1K 5% 1/10W
R387	1-216-643-11	METAL CHIP	470 0.50% 1/10W	R445	1-216-041-00	RES,CHIP	470 5% 1/10W
R388	1-216-025-91	RES,CHIP	100 5% 1/10W	R447	1-216-049-91	RES,CHIP	1K 5% 1/10W
R389	1-216-025-91	RES,CHIP	100 5% 1/10W	R448	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R390	1-216-663-11	METAL CHIP	3.3K 0.50% 1/10W	R449	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R391	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R450	1-216-049-91	RES,CHIP	1K 5% 1/10W
R393	1-216-037-00	RES,CHIP	330 5% 1/10W	R451	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R394	1-216-033-00	RES,CHIP	220 5% 1/10W	R452	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R395	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R453	1-216-049-91	RES,CHIP	1K 5% 1/10W
R396	1-216-636-11	METAL CHIP	240 0.50% 1/10W	R454	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R397	1-216-636-11	METAL CHIP	240 0.50% 1/10W	R455	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R398	1-216-049-91	RES,CHIP	1K 5% 1/10W	R456	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R399	1-216-025-91	RES,CHIP	100 5% 1/10W	R457	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R400	1-216-638-11	METAL CHIP	300 0.50% 1/10W	R458	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R401	1-216-025-91	RES,CHIP	100 5% 1/10W	R459	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R402	1-216-025-91	RES,CHIP	100 5% 1/10W	R460	1-216-041-00	RES,CHIP	470 5% 1/10W
R403	1-216-025-91	RES,CHIP	100 5% 1/10W	R461	1-216-037-00	RES,CHIP	330 5% 1/10W
R404	1-216-017-91	RES,CHIP	47 5% 1/10W	R462	1-216-037-00	RES,CHIP	330 5% 1/10W
R405	1-216-017-91	RES,CHIP	47 5% 1/10W	R463	1-216-041-00	RES,CHIP	470 5% 1/10W

The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R464	1-216-638-11	METAL CHIP	330 0.50% 1/10W		*A-1624-074-A	F1 BOARD, COMPLETE (KV-29FS60)	
R465	1-216-636-11	METAL CHIP	240 0.50% 1/10W		*****		
R466	1-216-049-91	RES,CHIP	1K 5% 1/10W		*A-1624-076-A	F1 BOARD, COMPLETE (KV-32FS60)	
R468	1-216-017-91	RES,CHIP	47 5% 1/10W		*****		
R469	1-216-017-91	RES,CHIP	47 5% 1/10W		< CAPACITOR >		
R470	1-216-017-91	RES,CHIP	47 5% 1/10W		C7626 Δ 1-136-527-12	FILM 0.47MF 20% 300V	
R471	1-216-033-00	RES,CHIP	220 5% 1/10W		< CONNECTOR >		
R472	1-216-033-00	RES,CHIP	220 5% 1/10W		CN7611 Δ *1-580-844-11	PIN, CONNECTOR (POWER)	
R473	1-216-033-00	RES,CHIP	220 5% 1/10W		CN7622	1-695-915-11 TAB (CONTACT)	
R474	1-216-033-00	RES,CHIP	220 5% 1/10W		CN7633 Δ *1-580-843-11	PIN, CONNECTOR (POWER)	
R475	1-216-033-00	RES,CHIP	220 5% 1/10W		< FUSE >		
R476	1-216-033-00	RES,CHIP	220 5% 1/10W		F7626 Δ 1-532-299-11	FUSE 5A/250V	
		< CRYSTAL >			Δ *1-533-725-11	HOLDER, FUSE (F7626)	
X300	1-767-262-31	VIBRATOR, CRYSTAL			< FILTER >		
*****					LF7627 Δ 1-433-488-11	TRANSFORMER, LINE FILTER	
	*A-1624-073-A	F BOARD, COMPLETE (KV-29FS60)			< RESISTOR >		
	*****				R7626 Δ 1-202-719-00	SOLID 1M 20% 1/2W	
	*A-1624-075-A	F BOARD, COMPLETE (KV-32FS60)			< VARISTOR >		
	*****				VDR762 Δ 1-801-073-31	VARISTOR ERZV14D471	
	*4-203-258-11	HOLDER, LED			*****		
	< CAPACITOR >				*A-1630-980-A	A BOARD, COMPLETE (KV-29FS60A/29FS60D/	
C7125	1-126-969-11	ELECT 220MF 20% 50V			*****	29FS60E/29FS60K/	
	< CONNECTOR >					29FS60R)	
CN7100	*1-568-879-11	PIN, CONNECTOR 4P			*A-1630-993-A	A BOARD, COMPLETE (KV-29FS60B)	
CN7600 Δ	*1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P			*****		
CN7644 Δ	*1-580-844-11	PIN, CONNECTOR (POWER)			*A-1630-994-A	A BOARD, COMPLETE (KV-29FS60U)	
	< DIODE >				*****		
D7125	8-719-030-11	DIODE SLA-570KT3F			*A-1630-979-A	A BOARD, COMPLETE (KV-32FS60A/32FS60D/	
	< IC >				*****	32FS60E)	
IC7125	8-749-014-59	IC TSOP1740KS1			*A-1630-995-A	A BOARD, COMPLETE (KV-32FS60B)	
	< RESISTOR >				*****		
R7125	1-247-815-91	CARBON 220 5% 1/4W			4-204-625-01	HEAT SINK, AUDIO	
R7126	1-249-411-11	CARBON 330 5% 1/4W			4-382-854-11	SCREW (M3X10), P, SW (+)	
	< SWITCH >				*4-931-401-01	HEAT SINK, V.OUT	
S7601 Δ	1-571-433-21	SWITCH, PUSH (AC POWER)			< CAPACITOR >		
					C1100	1-104-664-11	ELECT 47MF 20% 25V
					C1101	1-104-666-11	ELECT 220MF 20% 25V
					C1126	1-162-568-11	CERAMIC CHIP 0.33MF 10% 16V
					C1127	1-136-177-00	FILM 1MF 5% 50V
					C1128	1-163-135-00	CERAMIC CHIP 560PF 5% 50V
					C1129	1-130-777-00	FILM 0.1MF 5% 63V
					C1130	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V
					C1131	1-163-251-11	CERAMIC CHIP 100PF 5% 50V

MC-Service

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C1132	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C1614	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1133	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C1615	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1134	1-126-961-11	ELECT 2.2MF	20% 50V	C1617	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C1135	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	< CONNECTOR >			
C1136	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1111	*1-564-520-11	PLUG, CONNECTOR 5P	
C1137	1-126-953-11	ELECT 2200MF	20% 35V	CN1200	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1138	1-126-953-11	ELECT 2200MF	20% 35V	CN1300	1-695-297-11	CONNECTOR, BOARD TO BOARD 20P	
C1139	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	CN1301	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1140	1-111-216-91	ELECT 150MF	20% 63V	CN1401	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1151	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V	CN1402	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	(KV-29FS60B/32FS60B)
C1152	1-136-177-00	FILM 1MF	5% 50V	CN1600	1-900-903-64	CONNECTOR ASSY, 20P	
C1153	1-163-135-00	CERAMIC CHIP 560PF	5% 50V	CN1601	1-900-903-64	CONNECTOR ASSY, 20P	
C1154	1-130-777-00	FILM 0.1MF	5% 63V	CN1602	1-900-903-64	CONNECTOR ASSY, 20P	
C1155	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	CN1700	*1-568-879-11	PIN, CONNECTOR 4P	
C1156	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	CN1701	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
C1157	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	CN1702	*1-568-880-51	PIN, CONNECTOR 5P	
C1158	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1703	*1-564-514-11	PLUG, CONNECTOR 11P	
C1159	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1801	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C1160	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1901	1-695-298-11	CONNECTOR, BOARD TO BOARD 40P	
C1161	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	< COMPOSITION CIRCUIT BLOCK >			
C1162	1-111-216-91	ELECT 150MF	20% 63V	CP1300	1-251-658-11	SPLITTER RF	
C1176	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	< DIODE >			
C1177	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D1100	8-719-914-43	DIODE DAN202K	
C1178	1-126-964-11	ELECT 10MF	20% 50V	D1101	8-719-914-44	DIODE DAP202K	
C1179	1-126-964-11	ELECT 10MF	20% 50V	D1102	8-719-914-43	DIODE DAN202K	
C1180	1-126-952-11	ELECT 1000MF	20% 35V	D1103	8-719-914-43	DIODE DAN202K	
C1181	1-126-952-11	ELECT 1000MF	20% 35V	D1401	8-719-105-99	DIODE RD6.2M-B1	
C1182	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D1402	8-719-105-99	DIODE RD6.2M-B1	
C1183	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D1403	8-719-105-99	DIODE RD6.2M-B1	
C1184	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	D1404	8-719-105-99	DIODE RD6.2M-B1	
C1185	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	D1626	8-719-914-43	DIODE DAN202K	
C1226	1-104-661-91	ELECT 330MF	20% 16V	D1627	8-719-914-43	DIODE DAN202K	
C1300	1-126-933-11	ELECT 100MF	20% 16V	D1629	8-719-914-43	DIODE DAN202K	
C1301	1-163-059-91	CERAMIC CHIP 0.01MF	10% 50V	< FERRITE BEAD >			
C1326	1-163-059-91	CERAMIC CHIP 0.01MF	10% 50V	FB1126	1-535-143-61	LEAD, JUMPER (5.0MM)	
C1327	1-126-934-11	ELECT 220MF	20% 10V	FB1151	1-535-143-61	LEAD, JUMPER (5.0MM)	
C1328	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	< IC >			
C1350	1-163-059-91	CERAMIC CHIP 0.01MF	10% 50V	IC1126	8-759-544-25	IC TDA7482	
C1351	1-126-934-11	ELECT 220MF	20% 10V	IC1151	8-759-544-25	IC TDA7482	
C1601	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1176	8-759-333-24	IC LM1876TF	
C1602	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1400	8-752-072-94	IC CXA1875AM-T4	
C1603	1-126-933-11	ELECT 100MF	20% 16V	IC1401	8-759-439-64	IC HEF4053BT	
C1604	1-126-933-11	ELECT 100MF	20% 16V	IC1601	8-759-457-44	IC KA78R05TU	
C1605	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC1602	8-759-544-09	IC KA278R05TU	
C1607	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1608	1-126-934-11	ELECT 220MF	20% 16V				
C1609	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1610	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1611	1-126-933-11	ELECT 100MF	20% 16V				
C1612	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V				
C1613	1-126-933-11	ELECT 100MF	20% 16V				

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
IC1603	8-759-295-82	IC L78L08ACZ-AP		R1176	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
IC1604	8-759-544-13	IC KA78R09TU		R1177	1-216-063-91	RES,CHIP 3.9K 5%	1/10W
IC1605	8-759-544-11	IC KA78R33TU		R1178	1-216-357-00	METAL OXIDE 4.7 5%	1W F
< COIL >				R1179	1-216-357-00	METAL OXIDE 4.7 5%	1W F
L1126	1-416-966-11	CHOKE, COIL 30uH		R1180	1-216-081-00	RES,CHIP 22K 5%	1/10W
L1127	1-414-158-11	INDUCTOR 2.2UH		R1181	1-216-045-00	RES,CHIP 680 5%	1/10W
L1128	1-535-143-61	LEAD, JUMPER (5.0MM)		R1182	1-216-081-00	RES,CHIP 22K 5%	1/10W
L1151	1-416-966-11	CHOKE, COIL 30uH		R1183	1-216-045-00	RES,CHIP 680 5%	1/10W
L1152	1-414-158-11	INDUCTOR 2.2UH		R1184	1-216-089-91	RES,CHIP 47K 5%	1/10W
L1153	1-535-143-61	LEAD, JUMPER (5.0MM)		R1185	1-216-089-91	RES,CHIP 47K 5%	1/10W
L1300	1-414-183-41	INDUCTOR 10UH		R1201	1-216-089-91	RES,CHIP 47K 5%	1/10W
L1326	1-414-183-41	INDUCTOR 10UH		R1202	1-216-083-00	RES,CHIP 27K 5%	1/10W
L1350	1-414-183-41	INDUCTOR 10UH		R1203	1-216-083-00	RES,CHIP 27K 5%	1/10W
< TRANSISTOR >				R1204	1-216-071-00	RES,CHIP 8.2K 5%	1/10W
Q1100	8-729-216-22	TRANSISTOR 2SA1162-G		R1205	1-216-089-91	RES,CHIP 47K 5%	1/10W
Q1201	8-729-620-06	TRANSISTOR 2SC3052-EF		R1206	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1202	8-729-620-06	TRANSISTOR 2SC3052-EF		R1207	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
Q1203	8-729-620-06	TRANSISTOR 2SC3052-EF		R1208	1-216-089-91	RES,CHIP 47K 5%	1/10W
Q1204	8-729-620-06	TRANSISTOR 2SC3052-EF		R1209	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
Q1226	8-729-620-06	TRANSISTOR 2SC3052-EF		R1210	1-216-089-91	METAL CHIP 47K 5%	1/10W
Q1227	8-729-620-06	TRANSISTOR 2SC3052-EF		(KV-29FS60A/29FS60D/29FS60E/29FS60K/ 29FS60R/32FS60A/32FS60D/32FS60E)			
Q1229	8-729-027-38	TRANSISTOR DTA144EKA-T146		1-216-691-11	METAL CHIP 47K 0.50%	1/10W	(KV-29FS60B/29FS60U/32FS60B)
Q1300	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1226	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1326	8-729-620-06	TRANSISTOR 2SC3052-EF		R1227	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1327	8-729-216-22	TRANSISTOR 2SA1162-G		R1228	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1328	8-729-620-06	TRANSISTOR 2SC3052-EF		R1229	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1329	8-729-216-22	TRANSISTOR 2SA1162-G		R1230	1-216-055-00	RES,CHIP 1.8K 5%	1/10W
Q1350	8-729-620-06	TRANSISTOR 2SC3052-EF		R1232	1-216-295-91	SHORT 0	
Q1351	8-729-216-22	TRANSISTOR 2SA1162-G		R1233	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1400	8-729-046-47	TRANSISTOR KSC2500-BTA		R1300	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1601	8-729-620-06	TRANSISTOR 2SC3052-EF		R1301	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1626	8-729-620-06	TRANSISTOR 2SC3052-EF		R1326	1-216-025-91	RES,CHIP 100 5%	1/10W
< RESISTOR >				R1327	1-216-025-91	RES,CHIP 100 5%	1/10W
R1001	1-216-295-91	SHORT 0		R1328	1-216-073-00	RES,CHIP 10K 5%	1/10W
R1002	1-216-295-91	SHORT 0		R1329	1-216-025-91	RES,CHIP 100 5%	1/10W
R1003	1-216-295-91	SHORT 0		R1330	1-216-041-00	RES,CHIP 470 5%	1/10W
R1004	1-216-295-91	SHORT 0		R1331	1-216-041-00	RES,CHIP 470 5%	1/10W
R1005	1-216-295-91	SHORT 0		R1332	1-216-041-00	RES,CHIP 470 5%	1/10W
R1006	1-216-295-91	SHORT 0		R1333	1-216-075-00	RES,CHIP 12K 5%	1/10W
R1100	1-216-025-91	RES,CHIP 100 5%	1/10W	R1334	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
R1101	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R1335	1-216-025-91	RES,CHIP 100 5%	1/10W
R1102	1-216-057-00	RES,CHIP 2.2K 5%	1/10W	R1336	1-216-041-00	RES,CHIP 470 5%	1/10W
R1126	1-216-631-11	METAL CHIP 150 0.50%	1/10W	R1337	1-216-041-00	RES,CHIP 470 5%	1/10W
R1127	1-216-075-00	RES,CHIP 12K 5%	1/10W	R1338	1-216-001-00	RES,CHIP 10 5%	1/10W
R1128	1-216-041-00	RES,CHIP 470 5%	1/10W	R1339	1-216-041-00	RES,CHIP 470 5%	1/10W
R1151	1-216-631-11	METAL CHIP 150 0.50%	1/10W	R1340	1-216-043-91	RES,CHIP 560 5%	1/10W
R1152	1-216-075-00	RES,CHIP 12K 5%	1/10W	R1342	1-216-073-00	RES,CHIP 10K 5%	1/10W
R1153	1-216-041-00	RES,CHIP 470 5%	1/10W	R1350	1-216-073-00	RES,CHIP 10K 5%	1/10W
				R1351	1-216-025-91	RES,CHIP 100 5%	1/10W
				R1352	1-216-025-91	RES,CHIP 100 5%	1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK			REF. NO.	PART.NO	DESCRIPTION	REMARK		
R1353	1-216-073-00	RES,CHIP	10K	5%	1/10W	C9105	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1354	1-216-025-91	RES,CHIP	100	5%	1/10W	C9110	1-165-321-11	CERAMIC CHIP 0.68MF	10%	16V	
R1355	1-216-041-00	RES,CHIP	470	5%	1/10W	C9111	1-164-157-11	CERAMIC CHIP 0.068MF	10%	25V	
R1356	1-216-041-00	RES,CHIP	470	5%	1/10W	C9112	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1357	1-216-041-00	RES,CHIP	470	5%	1/10W	C9113	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1400	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	C9114	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1401	1-216-081-00	RES,CHIP	22K	5%	1/10W	C9115	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	
R1402	1-216-097-91	RES,CHIP	100K	5%	1/10W	C9117	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1405	1-216-025-91	RES,CHIP	100	5%	1/10W	C9118	1-104-664-11	ELECT 47MF	20%	25V	
R1406	1-216-025-91	RES,CHIP	100	5%	1/10W	C9119	1-163-259-91	CERAMIC CHIP 220PF	5%	50V	
R1407	1-216-025-91	RES,CHIP	100	5%	1/10W	C9121	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	
R1408	1-216-025-91	RES,CHIP	100	5%	1/10W	C9122	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	
R1409	1-216-025-91	RES,CHIP	100	5%	1/10W	C9123	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1410	1-216-025-91	RES,CHIP	100	5%	1/10W	C9124	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1601	1-216-057-00	RES,CHIP	2.2K	5%	1/10W	C9125	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1602	1-216-691-11	METAL CHIP	47K	0.50%	1/10W	C9126	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
R1603	1-216-025-91	RES,CHIP	100	5%	1/10W	C9127	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
R1605	1-216-049-91	RES,CHIP	1K	5%	1/10W	C9128	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
R1609	1-216-089-91	RES,CHIP	47K	5%	1/10W	C9129	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
R1610	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	C9130	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
R1615	1-216-025-91	RES,CHIP	100	5%	1/10W	C9131	1-163-105-00	CERAMIC CHIP 33PF	5%	50V	
R1616	1-216-304-11	RES,CHIP	3.3	5%	1/10W	C9132	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1617	1-216-304-11	RES,CHIP	3.3	5%	1/10W	C9400	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	
R1618	1-216-295-91	SHORT	0			C9500	1-104-664-11	ELECT 47MF	20%	25V	
R1621	1-216-027-00	RES,CHIP	120	5%	1/10W	C9502	1-104-664-11	ELECT 47MF	20%	25V	
R1622	1-216-029-00	RES,CHIP	150	5%	1/10W	C9503	1-126-964-11	ELECT 10MF	20%	50V	
R1623	1-216-033-00	RES,CHIP	220	5%	1/10W	C9504	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
R1625	1-216-295-91	SHORT	0			C9505	1-104-665-11	ELECT 100MF	20%	25V	
< TUNER >						C9506	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	
< TUNER >						C9507	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	
TU1326	1-693-338-21	TUNER/VIF (AEP)	(KV-29FS60A/29FS60D/29FS60E/29FS60K/29FS60R/32FS60A/32FS60D/32FS60E)			C9508	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	
	1-693-340-21	TUNER/VIF (FR)	(KV-29FS60B/32FS60B)			C9509	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	
	1-693-339-21	TUNER/VIF (UK)	(KV-29FS60U)			C9510	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	
						C9511	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
						C9512	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
TU1350	1-693-338-21	TUNER/VIF (AEP)	(KV-29FS60A/29FS60D/29FS60E/29FS60K/29FS60R/32FS60A/32FS60D/32FS60E)			C9513	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	
						C9514	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	
						C9515	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	
	1-693-340-21	TUNER/VIF (FR)	(KV-29FS60B/32FS60B)			C9516	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	
	1-693-339-21	TUNER/VIF (UK)	(KV-29FS60U)			C9517	1-163-021-91	CERAMIC CHIP 0.01MF	10%	50V	
*****						C9518	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V	
*****						C9519	1-126-964-11	ELECT 10MF	20%	50V	
*A-1634-049-A	M BOARD, COMPLETE	(KV-29FS60)	*****			C9520	1-163-251-11	CERAMIC CHIP 100PF	5%	50V	
*A-1634-048-A	M BOARD, COMPLETE	(KV-32FS60)	*****			< CONNECTOR >					
< CAPACITOR >						CN9101	1-695-301-11	CONNECTOR, BOARD TO BOARD	40P		
< CAPACITOR >						< DIODE >					
C9100	1-115-340-11	CERAMIC CHIP 0.22MF	10%	25V		D9100	8-719-988-62	DIODE 1SS355			
C9101	1-163-251-11	CERAMIC CHIP 100PF	5%	50V		D9101	8-719-988-62	DIODE 1SS355			
C9102	1-163-251-11	CERAMIC CHIP 100PF	5%	50V		D9102	8-719-988-62	DIODE 1SS355			
C9104	1-104-664-11	ELECT 47MF	20%	25V							



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
D9103	8-719-988-62	DIODE 1SS355		R9102	1-216-033-00	RES,CHIP 220 5%	1/10W
D9104	8-719-056-83	DIODE UDZ-TE-17-6.8B		R9103	1-216-025-91	RES,CHIP 100 5%	1/10W
D9105	8-719-914-43	DIODE DAN202K		R9104	1-216-073-00	RES,CHIP 10K 5%	1/10W
D9107	8-719-025-31	DIODE 02CZ5.6-TE85L		R9105	1-216-073-00	RES,CHIP 10K 5%	1/10W
D9108	8-719-914-44	DIODE DAP202K		R9107	1-216-025-91	RES,CHIP 100 5%	1/10W
D9109	8-719-105-91	DIODE RD5.6M-B2		R9108	1-216-025-91	RES,CHIP 100 5%	1/10W
D9110	8-719-914-43	DIODE DAN202K		R9109	1-216-073-00	RES,CHIP 10K 5%	1/10W
D9111	8-719-105-91	DIODE RD5.6M-B2		R9110	1-216-081-00	RES,CHIP 22K 5%	1/10W
< FILTER >				R9111	1-216-025-91	RES,CHIP 100 5%	1/10W
FL9101	1-236-071-11	ENCAPSULATED COMPONENT		R9112	1-216-025-91	RES,CHIP 100 5%	1/10W
FL9500	1-236-071-11	ENCAPSULATED COMPONENT		R9113	1-216-033-00	RES,CHIP 220 5%	1/10W
FL9501	1-236-071-11	ENCAPSULATED COMPONENT		R9114	1-216-083-00	RES,CHIP 27K 5%	1/10W
< IC >				R9115	1-216-081-00	RES,CHIP 22K 5%	1/10W
IC9100	8-759-988-13	IC LM393PS		R9116	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC9104	8-759-259-18	IC MB3793-42PNF		R9117	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC9105	8-759-544-30	IC SAB-C161R1-LM		R9119	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC9107	8-759-395-27	IC TC55257DFTL-70V		R9120	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC9108	8-759-531-64	IC M24C32-BN6		R9121	1-216-017-91	RES,CHIP 47 5%	1/10W
IC9109	8-759-544-32	IC M27C800-100K1		R9122	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC9110	8-759-559-96	IC HEF4094BT		R9123	1-216-073-00	RES,CHIP 10K 5%	1/10W
IC9400	8-759-481-78	IC M29F040-120N1		R9127	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC9500	8-759-034-47	IC MC74F00M-T2		R9138	1-216-049-91	RES,CHIP 1K 5%	1/10W
IC9501	8-759-483-52	IC HYB514400BJ-60		R9140	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
IC9502	8-759-438-62	IC SDA5275		R9141	1-216-049-91	RES,CHIP 1K 5%	1/10W
< COIL >				R9142	1-216-041-00	RES,CHIP 470 5%	1/10W
L9400	1-412-029-11	INDUCTOR CHIP 10UH		R9143	1-216-049-91	RES,CHIP 1K 5%	1/10W
L9401	1-412-029-11	INDUCTOR CHIP 10UH		R9144	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
< TRANSISTOR >				R9145	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q9100	8-729-620-06	TRANSISTOR 2SC3052-EF		R9146	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q9101	8-729-620-06	TRANSISTOR 2SC3052-EF		R9147	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q9102	8-729-216-22	TRANSISTOR 2SA1162-G		R9148	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q9103	8-729-620-06	TRANSISTOR 2SC3052-EF		R9149	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9105	8-729-620-06	TRANSISTOR 2SC3052-EF		R9150	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9106	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9151	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9107	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9153	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9108	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9159	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9109	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9161	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9110	8-729-620-06	TRANSISTOR 2SC3052-EF		R9162	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9106	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9164	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9107	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9166	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q9108	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9168	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9109	8-729-027-46	TRANSISTOR DTC114YKA-T146		R9169	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9110	8-729-620-06	TRANSISTOR 2SC3052-EF		R9172	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q9500	8-729-216-22	TRANSISTOR 2SA1162-G		R9173	1-216-295-91	SHORT 0	
Q9501	8-729-216-22	TRANSISTOR 2SA1162-G		R9174	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9502	8-729-216-22	TRANSISTOR 2SA1162-G		R9175	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9503	1-801-806-11	TRANSISTOR DTC144EKA-T146		R9176	1-216-025-91	RES,CHIP 100 5%	1/10W
Q9504	1-801-806-11	TRANSISTOR DTC144EKA-T146		R9177	1-216-025-91	RES,CHIP 100 5%	1/10W
< RESISTOR >				R9178	1-216-025-91	RES,CHIP 100 5%	1/10W
R9100	1-216-073-00	RES,CHIP 10K 5%	1/10W	R9184	1-216-025-91	RES,CHIP 100 5%	1/10W
R9101	1-216-033-00	RES,CHIP 220 5%	1/10W	R9185	1-216-025-91	RES,CHIP 100 5%	1/10W



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R9186	1-216-025-91	RES,CHIP	100 5% 1/10W		*A-1638-123-A	C BOARD, COMPLETE (KV-29FS60)	
R9187	1-216-065-91	RES,CHIP	4.7K 5% 1/10W		*****		
R9188	1-216-025-91	RES,CHIP	100 5% 1/10W		*A-1638-122-A	C BOARD, COMPLETE (KV-32FS60)	
R9189	1-216-025-91	RES,CHIP	100 5% 1/10W		*****		
R9190	1-216-025-91	RES,CHIP	100 5% 1/10W		1-671-108-11	PWB, C IC	
R9191	1-216-025-91	RES,CHIP	100 5% 1/10W		4-382-854-11	SCREW (M3X10), P, SW (+)	
R9192	1-216-025-91	RES,CHIP	100 5% 1/10W		< CAPACITOR >		
R9193	1-216-097-91	RES,CHIP	100K 5% 1/10W		C5301	1-102-129-00 CERAMIC	0.01MF 10% 50V
R9194	1-216-097-91	RES,CHIP	100K 5% 1/10W		C5302	1-128-528-11 ELECT	470MF 20% 16V
R9195	1-216-097-91	RES,CHIP	100K 5% 1/10W		C5304	1-107-666-11 ELECT	1MF 20% 350V
R9196	1-216-073-00	RES,CHIP	10K 5% 1/10W		C5305	1-136-207-11 FILM	0.047MF 10% 400V
R9197	1-216-073-00	RES,CHIP	10K 5% 1/10W		C5306	1-102-157-00 CERAMIC	560PF 10% 500V
R9500	1-216-295-91	SHORT	0		C5325	1-102-959-00 CERAMIC	22PF 5% 50V
R9501	1-216-295-91	SHORT	0		C5326	1-102-157-00 CERAMIC	560PF 10% 500V
R9502	1-216-295-91	SHORT	0		C5327	1-102-129-00 CERAMIC	0.01MF 10% 50V
R9504	1-216-041-00	RES,CHIP	470 5% 1/10W		C5328	1-128-528-11 ELECT	470MF 20% 16V
R9505	1-216-051-00	RES,CHIP	1.2K 5% 1/10W		C5329	1-107-666-11 ELECT	1MF 20% 350V
R9506	1-216-073-00	RES,CHIP	10K 5% 1/10W		C5330	1-136-207-11 FILM	0.047MF 10% 400V
R9507	1-216-097-91	RES,CHIP	100K 5% 1/10W		C5350	1-107-907-11 ELECT	22MF 20% 50V
R9508	1-216-017-91	RES,CHIP	47 5% 1/10W		C5352	1-102-157-00 CERAMIC	560PF 10% 500V
R9509	1-216-049-91	RES,CHIP	1K 5% 1/10W		C5353	1-102-129-00 CERAMIC	0.01MF 10% 50V
R9510	1-216-017-91	RES,CHIP	47 5% 1/10W		C5354	1-128-528-11 ELECT	470MF 20% 16V
R9511	1-216-049-91	RES,CHIP	1K 5% 1/10W		C5355	1-107-666-11 ELECT	1MF 20% 350V
R9512	1-216-017-91	RES,CHIP	47 5% 1/10W		C5356	1-136-207-11 FILM	0.047MF 10% 400V
R9513	1-216-017-91	RES,CHIP	47 5% 1/10W		C5375	1-107-902-11 ELECT	1MF 20% 50V
R9514	1-216-017-91	RES,CHIP	47 5% 1/10W		C5377	1-162-115-00 CERAMIC	330PF 10% 2KV
R9515	1-216-295-91	SHORT	0		C5378	1-162-116-00 CERAMIC	680PF 10% 2KV
R9516	1-216-295-91	SHORT	0		C5379	1-162-116-00 CERAMIC	680PF 10% 2KV
R9517	1-216-295-91	SHORT	0		C5380	1-107-652-11 ELECT	10MF 20% 250V
R9518	1-216-049-91	RES,CHIP	1K 5% 1/10W		C5381	1-162-116-00 CERAMIC	680PF 10% 2KV
R9519	1-216-039-00	RES,CHIP	390 5% 1/10W		C5382	1-162-114-00 CERAMIC	0.0047MF 2KV
R9520	1-216-039-00	RES,CHIP	390 5% 1/10W		< CONNECTOR >		
R9521	1-216-039-00	RES,CHIP	390 5% 1/10W		CN5400	1-564-511-11 PLUG, CONNECTOR 8P	
R9522	1-216-295-91	SHORT	0		CN5511	1-695-915-11 TAB (CONTACT)	
R9523	1-216-295-91	SHORT	0		CN5522	1-695-915-11 TAB (CONTACT)	
R9524	1-216-295-91	SHORT	0		CN5600	1-508-766-00 PIN, CONNECTOR (5MM PITCH) 4P	
R9525	1-216-057-00	RES,CHIP	2.2K 5% 1/10W		< DIODE >		
R9526	1-216-057-00	RES,CHIP	2.2K 5% 1/10W		D5300	8-719-911-19 DIODE 1SS119-25	
R9527	1-216-057-00	RES,CHIP	2.2K 5% 1/10W		D5302	8-719-901-83 DIODE 1SS83	
R9528	1-216-025-91	RES,CHIP	100 5% 1/10W		D5325	8-719-911-19 DIODE 1SS119-25	
R9529	1-216-025-91	RES,CHIP	100 5% 1/10W		D5326	8-719-923-60 DIODE MT2J-T-77-9.1A	
R9530	1-216-025-91	RES,CHIP	100 5% 1/10W		D5327	8-719-901-83 DIODE 1SS83	
R9531	1-216-295-91	SHORT	0		D5350	8-719-911-19 DIODE 1SS119-25	
< CRYSTAL >					D5351	8-719-991-33 DIODE 1SS133T-77	
X9101	1-781-107-21	RESONATOR			D5353	8-719-901-83 DIODE 1SS83	
X9500	1-760-551-21	VIBRATOR, CERAMIC			D5375	8-719-991-33 DIODE 1SS133T-77	
					D5376	8-719-991-33 DIODE 1SS133T-77	
					D5377	8-719-908-03 DIODE GP08D	

The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.

C

E

REF. NO.	PART.NO	DESCRIPTION	REMARK				REF. NO.	PART.NO	DESCRIPTION	REMARK			
D5378	8-719-921-88	DIODE MTZJ-13B					R5354	1-249-418-11	CARBON	1.2K	5%	1/4W	
D5379	8-719-982-96	DIODE MTZJ-T-77-2.2A					R5355	1-249-408-11	CARBON	180	5%	1/4W	
D5380	8-719-982-96	DIODE MTZJ-T-77-2.2A					R5356	1-249-417-11	CARBON	1K	5%	1/4W	
D5381	8-719-031-34	DIODE RGP02-20EG23					R5357	1-202-565-00	SOLID	470	20%	1/2W	
< IC >						R5358	1-215-926-00	METAL OXIDE	33K	5%	3W F		
IC5300	8-759-360-83	IC TDA6111Q/N4					R5359	1-247-863-91	CARBON	22K	5%	1/4W	
IC5325	8-759-360-83	IC TDA6111Q/N4					R5360	1-249-424-11	CARBON	3.9K	5%	1/4W	
IC5350	8-759-360-83	IC TDA6111Q/N4					R5361	1-249-425-11	CARBON	4.7K	5%	1/4W	
< SOCKET >						R5375	1-249-435-11	CARBON	33K	5%	1/4W		
J5375	△ 1-540-071-22	SOCKET, CRT					R5376	1-249-429-11	CARBON	10K	5%	1/4W	
< COIL >						R5377	1-249-430-11	CARBON	12K	5%	1/4W		
L5300	1-408-599-31	INDUCTOR	4.7UH				R5378	1-249-429-11	CARBON	10K	5%	1/4W	
L5325	1-408-599-31	INDUCTOR	4.7UH				R5379	1-249-438-11	CARBON	56K	5%	1/4W	
L5350	1-408-599-31	INDUCTOR	4.7UH				R5380	1-247-863-91	CARBON	22K	5%	1/4W	
L5375	1-410-671-31	INDUCTOR	47UH				R5381	1-249-420-11	CARBON	1.8K	5%	1/4W	
L5376	1-412-525-31	INDUCTOR	10UH				R5382	1-202-549-00	SOLID	100	20%	1/2W	
L5377	1-414-183-41	INDUCTOR	10UH				R5383	1-216-392-11	METAL OXIDE	6.8	5%	3W F	
< TRANSISTOR >						R5384	1-216-392-11	METAL OXIDE	6.8	5%	3W F		
Q5300	8-729-255-12	TRANSISTOR 2SC2551-O				R5385	1-202-549-00	SOLID	100	20%	1/2W		
Q5325	8-729-255-12	TRANSISTOR 2SC2551-O				R5386	1-202-884-11	SOLID	820K	20%	1/2W		
Q5350	8-729-029-56	TRANSISTOR DTA144ESA				R5387	1-202-884-11	SOLID	820K	20%	1/2W		
Q5351	8-729-255-12	TRANSISTOR 2SC2551-O				R5388	1-215-911-11	METAL OXIDE	100	5%	3W F		
Q5375	8-729-119-78	TRANSISTOR 2SC2785-HFE				R5389	1-249-417-11	CARBON	1K	5%	1/4W F		
Q5376	8-729-026-41	TRANSISTOR 2SA933AS-QRT				< VARIABLE RESISTOR >							
< RESISTOR >						RV5375	1-241-656-21	RES, ADJ, METAL FILM 110M					
R5300	1-249-417-11	CARBON	1K	5%	1/4W	RV5376	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M					
R5301	1-249-415-11	CARBON	680	5%	1/4W	*****							
R5302	1-249-408-11	CARBON	180	5%	1/4W	*A-1640-319-A	E BOARD, COMPLETE (KV-29FS60)						
R5303	1-249-417-11	CARBON	1K	5%	1/4W	*****							
R5304	1-202-565-00	SOLID	470	20%	1/2W	*A-1640-324-A	E BOARD, COMPLETE (KV-32FS60)						
R5305	1-215-926-00	METAL OXIDE	33K	5%	3W F	*****							
R5306	1-249-424-11	CARBON	3.9K	5%	1/4W	< CAPACITOR >							
R5307	1-247-863-91	CARBON	22K	5%	1/4W	C4316	1-104-664-11	ELECT	47MF	20%	25V		
R5325	1-249-417-11	CARBON	1K	5%	1/4W	C4317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
R5326	1-249-415-11	CARBON	680	5%	1/4W	C4318	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
R5327	1-249-408-11	CARBON	180	5%	1/4W	C4319	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
R5328	1-249-417-11	CARBON	1K	5%	1/4W	C4320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
R5329	1-202-565-00	SOLID	470	20%	1/2W	C4321	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
R5330	1-215-926-00	METAL OXIDE	33K	5%	3W F	C4322	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
R5331	1-249-424-11	CARBON	3.9K	5%	1/4W	C4324	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
R5332	1-247-863-91	CARBON	22K	5%	1/4W	C4325	1-163-093-00	CERAMIC CHIP	10PF	5%	50V		
R5350	1-249-417-11	CARBON	1K	5%	1/4W	C4329	1-126-963-11	ELECT	4.7MF	20%	50V		
R5351	1-249-415-11	CARBON	680	5%	1/4W	C4330	1-136-165-00	FILM	0.1MF	5%	50V		
R5352	1-249-416-11	CARBON	820	5%	1/4W	C4331	1-126-959-11	ELECT	0.47MF	20%	50V		
R5353	1-249-421-11	CARBON	2.2K	5%	1/4W	C4332	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
						C4333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		
						C4334	1-126-967-11	ELECT	47MF	20%	50V		



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C4338	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D4313	8-719-401-63	DIODE MA3062M-TX	
C4340	1-126-967-11	ELECT 47MF	20% 50V	< FERRITE BEAD >			
C4342	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	FB4387	1-216-295-91	SHORT 0	
C4343	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	FB4388	1-216-295-91	SHORT 0	
C4344	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	FB4389	1-216-295-91	SHORT 0	
C4345	1-126-967-11	ELECT 47MF	20% 50V	< IC >			
C4346	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	IC4301	8-752-086-23	IC CXA2100Q-TL	
C4347	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	< COIL >			
C4348	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L4301	1-414-183-41	INDUCTOR 10UH	
C4349	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L4302	1-414-183-41	INDUCTOR 10UH	
C4350	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L4303	1-414-183-41	INDUCTOR 10UH	
C4351	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	L4304	1-414-183-41	INDUCTOR 10UH	
C4352	1-126-967-11	ELECT 47MF	20% 50V	L4305	1-414-183-41	INDUCTOR 10UH	
C4353	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	L4306	1-414-183-41	INDUCTOR 10UH	
C4354	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	L4308	1-408-609-41	INDUCTOR 33UH	
C4355	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	L4309	1-408-609-41	INDUCTOR 33UH	
C4356	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	< TRANSISTOR >			
C4357	1-164-004-11	CERAMIC CHIP 0.1MF	10% 50V	Q4304	8-729-216-22	TRANSISTOR 2SA1162-G	
C4358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q4307	8-729-216-22	TRANSISTOR 2SA1162-G	
C4359	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	Q4308	8-729-216-22	TRANSISTOR 2SA1162-G	
C4360	1-126-963-11	ELECT 4.7MF	20% 50V	Q4309	8-729-216-22	TRANSISTOR 2SA1162-G	
C4362	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q4310	8-729-216-22	TRANSISTOR 2SA1162-G	
C4363	1-126-967-11	ELECT 47MF	20% 50V	Q4315	1-801-806-11	TRANSISTOR DTC144EKA-T146	
C4364	1-126-967-11	ELECT 47MF	20% 50V	Q4316	8-729-620-06	TRANSISTOR 2SC3052-EF	
C4366	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	Q4317	8-729-900-53	TRANSISTOR DTC114EK	
C4367	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	Q4318	8-729-902-21	TRANSISTOR 2SA1037K-T-146-R	
		(KV-32FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)				(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V	< RESISTOR >			
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R4301	1-216-025-91	RES,CHIP 100 5% 1/10W	
C4369	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R4302	1-216-025-91	RES,CHIP 100 5% 1/10W	
C4370	1-126-967-11	ELECT 47MF	20% 50V	R4303	1-216-025-91	RES,CHIP 100 5% 1/10W	
C4371	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R4304	1-216-025-91	RES,CHIP 100 5% 1/10W	
C4377	1-126-960-11	ELECT 1MF	20% 50V	R4305	1-216-025-91	RES,CHIP 100 5% 1/10W	
C4379	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	R4306	1-216-025-91	RES,CHIP 100 5% 1/10W	
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R4313	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
C4380	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	R4314	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R4331	1-216-073-00	RES,CHIP 10K 5% 1/10W	
C4381	1-163-249-11	CERAMIC CHIP 82PF	5% 50V	R4332	1-216-073-00	RES,CHIP 10K 5% 1/10W	
C4518	1-162-638-11	CERAMIC CHIP 1MF	16V	R4333	1-216-073-00	RES,CHIP 10K 5% 1/10W	
< CONNECTOR >				R4334	1-216-025-91	RES,CHIP 100 5% 1/10W	
CN4101	1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		R4335	1-216-025-91	RES,CHIP 100 5% 1/10W	
CN4500	1-564-511-11	PLUG, CONNECTOR 8P		R4336	1-216-025-91	RES,CHIP 100 5% 1/10W	
CN4502*	1-568-878-51	PIN, CONNECTOR 3P		R4337	1-216-025-91	RES,CHIP 100 5% 1/10W	
< DIODE >				R4339	1-216-049-91	RES,CHIP 1K 5% 1/10W	
D4304	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4340	1-216-111-00	RES,CHIP 390K 5% 1/10W	
D4305	8-719-923-60	DIODE MTZJ-T-77-9.1A		R4341	1-216-295-91	SHORT 0	
D4311	8-719-914-43	DIODE DAN202K					
D4312	8-719-914-43	DIODE DAN202K					

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R4343	1-216-025-91	RES,CHIP	100 5% 1/10W	R4403	1-216-073-91	RES,CHIP 10K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4344	1-216-025-91	RES,CHIP	100 5% 1/10W	R4404	1-216-073-91	RES,CHIP 10K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4345	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R4405	1-216-087-91	RES,CHIP 39K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4346	1-216-683-11	METAL CHIP	22K 0.50% 1/10W	R4406	1-216-105-91	RES,CHIP 220K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4347	1-216-025-91	RES,CHIP	100 5% 1/10W	R4407	1-216-091-91	RES,CHIP 56K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4348	1-216-025-91	RES,CHIP	100 5% 1/10W	R4504	1-216-295-91	SHORT 0	
R4350	1-216-025-91	RES,CHIP	100 5% 1/10W	R4505	1-216-295-91	SHORT 0	
R4354	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R4506	1-216-295-91	SHORT 0	
R4358	1-216-071-00	RES,CHIP	8.2K 5% 1/10W	R4507	1-216-129-00	RES,CHIP 2.2M 5% 1/10W	
R4359	1-216-041-00	RES,CHIP	470 5% 1/10W	R4518	1-216-025-91	RES,CHIP 100 5% 1/10W	
R4360	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R4519	1-216-025-91	RES,CHIP 100 5% 1/10W	
R4361	1-216-133-00	RES,CHIP	3.3M 5% 1/10W	R4520	1-216-295-91	SHORT 0	
R4363	1-216-025-91	RES,CHIP	100 5% 1/10W	R4521	1-216-295-91	SHORT 0	
R4365	1-216-025-91	RES,CHIP	100 5% 1/10W	R4522	1-216-295-91	SHORT 0	
R4366	1-216-025-91	RES,CHIP	100 5% 1/10W	R4523	1-216-295-91	SHORT 0	
R4367	1-216-025-91	RES,CHIP	100 5% 1/10W	< CRYSTAL >			
R4370	1-216-077-00	RES,CHIP	15K 5% 1/10W	X4300	1-767-127-11	VIBRATOR, CERAMIC	
R4371	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	*****			
R4372	1-216-049-91	RES,CHIP	1K 5% 1/10W	*A-1640-320-A	D1 BOARD, COMPLETE (KV-29FS60)		
R4373	1-216-073-00	RES,CHIP	10K 5% 1/10W		*****		
R4374	1-216-049-91	RES,CHIP	1K 5% 1/10W	*A-1640-325-A	D1 BOARD, COMPLETE (KV-32FS60)		
R4375	1-216-049-91	RES,CHIP	1K 5% 1/10W		*****		
R4376	1-216-049-91	RES,CHIP	1K 5% 1/10W	4-382-854-11	SCREW (M3X10), P, SW (+)		
R4377	1-216-049-91	RES,CHIP	1K 5% 1/10W	< CAPACITOR >			
R4378	1-216-101-00	RES,CHIP	150K 5% 1/10W	C6100	1-136-165-00	FILM 0.1MF 5% 50V	
R4380	1-216-073-00	RES,CHIP	10K 5% 1/10W	C6101	1-136-165-00	FILM 0.1MF 5% 50V	
R4381	1-216-125-00	RES,CHIP 1.5M 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		C6102	1-136-165-00	FILM 0.1MF 5% 50V	
	1-216-127-11	RES,CHIP 1.8M 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		C6103	1-163-205-00	CERAMIC CHIP 0.001MF 5% 50V	
R4382	1-216-073-00	RES,CHIP	10K 5% 1/10W	C6104	1-163-205-00	CERAMIC CHIP 0.001MF 5% 50V	
R4383	1-216-089-91	RES,CHIP 47K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		C6105	1-126-967-11	ELECT 47MF 20% 50V	
	1-216-079-00	RES,CHIP 18K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		C6106	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
R4384	1-216-025-91	RES,CHIP	100 5% 1/10W	C6108	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V	
R4387	1-216-025-91	RES,CHIP	100 5% 1/10W	C6109	1-126-967-11	ELECT 47MF 20% 50V	
R4388	1-216-025-91	RES,CHIP	100 5% 1/10W	C6110	1-126-967-11	ELECT 47MF 20% 50V	
R4389	1-216-025-91	RES,CHIP	100 5% 1/10W	C6111	1-126-967-11	ELECT 47MF 20% 50V (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R4395	1-216-295-91	SHORT 0		C6112	1-163-037-11	CERAMIC CHIP 0.022MF 10% 50V	
R4396	1-216-295-91	SHORT 0		C6113	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V	
R4398	1-216-025-91	RES,CHIP	100 5% 1/10W	C6114	1-126-964-11	ELECT 10MF 20% 50V	
R4401	1-216-107-00	RES,CHIP 270K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		C6115	1-163-005-11	CERAMIC CHIP 470PF 10% 50V	
	1-216-099-00	RES,CHIP 120K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		C6116	1-163-275-11	CERAMIC CHIP 0.001MF 5% 50V	
R4402	1-216-133-91	RES,CHIP 56K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		C6117	1-163-275-11	CERAMIC CHIP 0.001MF 5% 50V	
				C6119	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V	

REF. NO.	PART. NO	DESCRIPTION	REMARK	REF. NO.	PART. NO	DESCRIPTION	REMARK
C6121	1-126-964-11	ELECT 10MF	20% 50V	C6367	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V
C6122	1-126-967-11	ELECT 47MF	20% 50V	C6368	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C6125	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C6370	1-137-493-11	FILM 0.0047MF	5% 630V
C6126	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	C6371	1-137-493-11	FILM 0.0047MF	5% 630V
C6127	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V			(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
C6128	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C6373	1-136-153-00	FILM 0.01MF	5% 50V
C6129	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	C6374	1-137-499-11	FILM 0.015MF	5% 630V
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		C6375	1-102-110-00	CERAMIC 220PF	10% 50V
	1-164-336-11	CERAMIC CHIP 0.33MF	10% 50V	C6376	1-104-664-11	ELECT 47MF	20% 16V
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		C6377	1-128-551-11	ELECT 22MF	20% 25V
C6130	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C6378	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		C6380	1-136-165-00	FILM 0.1MF	5% 50V
C6131	1-126-964-11	ELECT 10MF	20% 50V	C6381	1-126-960-11	ELECT 1MF	20% 50V
C6132	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	C6385	1-104-664-11	ELECT 47MF	20% 25V
C6199	1-163-229-11	CERAMIC CHIP 12PF	5% 50V	C6386	1-104-664-11	ELECT 47MF	20% 25V
C6207	1-126-967-11	ELECT 47MF	20% 50V	C6388	1-126-964-11	ELECT 10MF	20% 50V
C6208	1-126-967-11	ELECT 47MF	20% 50V	C6389	1-126-964-11	ELECT 10MF	20% 50V
C6209	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C6392	1-104-664-11	ELECT 47MF	20% 25V
C6210	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C6401	1-126-964-11	ELECT 10MF	20% 50V
C6250	1-104-664-11	ELECT 47MF	20% 16V	C6402	1-107-714-11	ELECT 10MF	20% 50V
C6253	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	C6407	1-136-161-00	FILM 0.047MF	5% 50V
C6254	1-136-177-00	FILM 1MF	5% 50V	C6408	1-136-161-00	FILM 0.047MF	5% 50V
C6255	1-136-177-00	FILM 1MF	5% 50V	C6409	1-126-964-11	ELECT 10MF	20% 50V
C6256	1-163-117-00	CERAMIC CHIP 100PF	5% 50V			< CONNECTOR >	
C6257	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	CN6502*	1-568-881-51	PIN, CONNECTOR 6P	
C6258	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	CN6601	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C6259	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V	CN6622*	1-568-878-51	PIN, CONNECTOR 3P	
C6260	1-104-664-11	ELECT 47MF	20% 16V	CN6633*	1-568-878-51	PIN, CONNECTOR 3P	
C6261	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V			< DIODE >	
C6262	1-136-165-00	FILM 0.1MF	5% 50V	D6100	8-719-914-43	DIODE DAN202K-T-146	
C6263	1-163-109-00	CERAMIC CHIP 47PF	5% 50V			(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
C6264	1-126-964-11	ELECT 10MF	20% 50V	D6101	8-719-921-40	DIODE MTZJ-T-77-4-7B	
C6306	1-126-964-11	ELECT 10MF	20% 50V			(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
C6307	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D6102	8-719-914-43	DIODE DAN202K	
C6350	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D6104	8-719-914-43	DIODE DAN202K	
C6351	1-126-967-11	ELECT 47MF	20% 50V	D6105	8-719-914-43	DIODE DAN202K	
C6353	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	D6106	8-719-914-43	DIODE DAN202K	
C6354	1-136-159-00	FILM 0.033MF	5% 50V	D6108	8-719-921-40	DIODE MTZJ-4.7C	
C6355	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D6127	8-719-914-43	DIODE DAN202K	
C6356	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	D6128	8-719-914-43	DIODE DAN202K	
C6357	1-136-165-00	FILM 0.1MF	5% 50V	D6129	8-719-914-43	DIODE DAN202K	
C6358	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	D6198	1-535-303-00	LEAD, JUMPER (5.0MM)	
C6359	1-104-329-11	CERAMIC CHIP 0.1MF	10% 50V	D6253	8-719-911-19	DIODE 1SS119-25	
C6360	1-107-714-11	ELECT 10MF	20% 50V	D6254	1-535-303-00	LEAD, JUMPER (5.0MM)	
C6361	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D6350	8-719-914-43	DIODE DAN202K	
C6362	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	D6351	8-719-914-43	DIODE DAN202K	
C6363	1-104-665-11	ELECT 100MF	20% 25V	D6352	8-719-914-43	DIODE DAN202K	
C6364	1-137-493-11	FILM 0.0047MF	5% 630V	D6353	8-719-987-87	DIODE ERA85-009	
C6365	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	D6354	8-719-914-43	DIODE DAN202K	

The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.

D1

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D6355	8-719-914-43	DIODE DAN202K (KV-32FS60A/32FS60B/32FS60D/32FS60E)		Q6123	8-729-216-22	TRANSISTOR 2SA1162-G	
	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W		Q6125	8-729-620-06	TRANSISTOR 2SC3052-EF	
D6358	8-719-914-43	DIODE DAN202K		Q6126	8-729-216-22	TRANSISTOR 2SA1162-G	
D6359	8-719-302-43	DIODE EL1Z		Q6127	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q6128	8-729-620-06	TRANSISTOR 2SC3052-EF	
D6401	8-719-914-43	DIODE DAN202K		Q6129	8-729-216-22	TRANSISTOR 2SA1162-G	
D6402	8-719-982-03	DIODE MTZJ-3.6A		Q6130	8-729-216-22	TRANSISTOR 2SA1162-G	
D6403	8-719-921-63	DIODE MTZJ-7.5B		Q6131	8-729-620-06	TRANSISTOR 2SC3052-EF	
D6404	8-719-914-43	DIODE DAN202K		Q6201	8-729-620-06	TRANSISTOR 2SC3052-EF	
D6405	8-719-921-63	DIODE MTZJ-7.5B		Q6202	8-729-620-06	TRANSISTOR 2SC3052-EF	
< IC >				Q6250	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC6100	8-759-450-95	IC LM393N		Q6251	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC6101	8-759-450-95	IC LM393N		Q6252	8-729-216-22	TRANSISTOR 2SA1162-G	
IC6102	8-759-701-50	IC NJM3404AD		Q6253	8-729-017-06	TRANSISTOR 2SC4793	
IC6103	8-759-450-95	IC LM393N		Q6254	8-729-017-05	TRANSISTOR 2SA1837	
IC6250	8-759-478-66	IC CXA8070P		Q6350	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC6251	8-759-903-16	IC LM318P		Q6351	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC6302	8-752-072-94	IC CXA1875AM-T4		Q6352	8-729-140-97	TRANSISTOR 2SB734-34	
IC6350	8-759-008-70	IC LM358N		Q6353	8-729-140-97	TRANSISTOR 2SB734-34	
IC6351	8-759-450-95	IC LM393N		Q6354	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC6352	8-759-450-95	IC LM393N		Q6356	8-729-620-06	TRANSISTOR 2SC3052-EF	
IC6353	8-759-231-53	IC TA7805S		Q6358	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
IC6354	8-759-325-48	IC CA0005AD		Q6401	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC6355	8-759-008-70	IC LM358N		Q6402	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC6356	8-759-822-38	IC LA6510		Q6403	8-729-620-06	TRANSISTOR 2SC3052-EF	
< FILTER >				Q6404	8-729-216-22	TRANSISTOR 2SA1162-G	
LF6350	1-406-989-21	INDUCTOR	0UH	Q6405	8-729-216-22	TRANSISTOR 2SA1162-G	
LF6351	1-406-989-21	INDUCTOR	0UH	Q6455	8-729-620-06	TRANSISTOR 2SC3052-EF	
< IC LINK >				Q6465	8-729-620-06	TRANSISTOR 2SC3052-EF	
PS6376 Δ	1-532-637-00	LINK, IC 1A (ICP-N25)		< RESISTOR >			
< TRANSISTOR >				R6100	1-216-033-00	RES,CHIP 220 5% 1/10W	
Q6100	8-729-620-06	TRANSISTOR 2SC3052-EF		R6101	1-216-033-00	RES,CHIP 220 5% 1/10W	
Q6101	8-729-620-06	TRANSISTOR 2SC3052-EF		R6102	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q6102	8-729-620-06	TRANSISTOR 2SC3052-EF		R6103	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q6103	8-729-620-06	TRANSISTOR 2SC3052-EF		R6104	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q6104	8-729-620-06	TRANSISTOR 2SC3052-EF		R6105	1-216-049-91	RES,CHIP 1K 5% 1/10W	
Q6105	8-729-620-06	TRANSISTOR 2SC3052-EF		R6106	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
Q6106	8-729-620-06	TRANSISTOR 2SC3052-EF		R6107	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
Q6107	8-729-620-06	TRANSISTOR 2SC3052-EF			1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
Q6108	8-729-216-22	TRANSISTOR 2SA1162-G		R6108	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
Q6110	8-729-216-22	TRANSISTOR 2SA1162-G			1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
Q6112	8-729-620-06	TRANSISTOR 2SC3052-EF		R6109	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
Q6113	8-729-620-06	TRANSISTOR 2SC3052-EF					
Q6118	8-729-620-06	TRANSISTOR 2SC3052-EF					
Q6119	8-729-216-22	TRANSISTOR 2SA1162-G					
Q6120	8-729-216-22	TRANSISTOR 2SA1162-G					
Q6122	8-729-216-22	TRANSISTOR 2SA1162-G					

MC-Service

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R6110	1-216-679-11	METAL CHIP 15K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6142	1-216-672-11	METAL CHIP 7.5K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-683-11	METAL CHIP 22K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)			1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6111	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6143	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6112	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6145	1-216-045-00	RES,CHIP 680 5% 1/10W	
R6113	1-216-073-00	RES,CHIP 10K 5% 1/10W		R6146	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6114	1-216-073-00	RES,CHIP 10K 5% 1/10W			1-216-065-91	RES,CHIP 4.7K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6115	1-216-089-91	RES,CHIP 47K 5% 1/10W					
R6116	1-216-089-91	RES,CHIP 47K 5% 1/10W		R6147	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6117	1-216-073-00	RES,CHIP 10K 5% 1/10W		R6148	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6118	1-216-073-00	RES,CHIP 10K 5% 1/10W		R6149	1-216-025-91	RES,CHIP 100 5% 1/10W	
R6119	1-216-073-00	RES,CHIP 10K 5% 1/10W		R6154	1-216-651-11	METAL CHIP 1K 0.50% 1/10W	
R6120	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6155	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
R6121	1-216-057-00	RES,CHIP 2.2K 5% 1/10W					
R6122	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6158	1-216-663-11	METAL CHIP 6.8K 0.50% 1/10W	
R6123	1-216-089-91	RES,CHIP 47K 5% 1/10W		R6159	1-216-295-91	SHORT 0	
R6124	1-216-089-91	RES,CHIP 47K 5% 1/10W		R6160	1-216-295-91	SHORT 0 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6125	1-216-057-00	RES,CHIP 2.2K 5% 1/10W			1-216-655-11	METAL CHIP 1.5K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6126	1-216-037-00	RES,CHIP 330 5% 1/10W					
R6127	1-216-663-11	RES,CHIP 3.3K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6161	1-216-673-11	METAL CHIP 8.2K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)			1-216-669-11	METAL CHIP 5.6K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6128	1-216-691-11	METAL CHIP 47K 0.50% 1/10W		R6162	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R6129	1-216-691-11	METAL CHIP 47K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6165	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
R6130	1-218-768-11	METAL CHIP 470K 0.50% 1/10W		R6168	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R6131	1-216-037-00	RES,CHIP 330 5% 1/10W		R6169	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
R6132	1-216-037-00	RES,CHIP 330 5% 1/10W		R6170	1-216-037-00	RES,CHIP 330 5% 1/10W	
R6133	1-216-037-00	RES,CHIP 330 5% 1/10W					
R6134	1-216-057-00	RES,CHIP 2.2K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6171	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6135	1-163-021-91	CERAMIC CHIP 0.01MF 10% 50V (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6174	1-216-075-00	RES,CHIP 12K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-057-00	RES,CHIP 2.2K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)			1-216-081-00	RES,CHIP 22K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6136	1-216-691-11	METAL CHIP 47K 0.50% 1/10W		R6175	1-216-075-00	RES,CHIP 12K 5% 1/10W	
R6137	1-216-691-11	METAL CHIP 47K 0.50% 1/10W		R6176	1-216-683-11	METAL CHIP 22K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6138	1-216-691-11	METAL CHIP 47K 0.50% 1/10W			1-216-295-91	SHORT 0 (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6139	1-216-691-11	METAL CHIP 47K 0.50% 1/10W					
R6140	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6177	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R6141	1-216-683-11	METAL CHIP 22K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6178	1-216-073-00	RES,CHIP 10K 5% 1/10W	
	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6179	1-216-655-11	METAL CHIP 1.5K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
					1-216-061-00	METAL CHIP 3.3K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R6180	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6215	1-216-683-11	METAL CHIP 22K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6182	1-216-089-91	RES,CHIP 47K 5% 1/10W			1-216-089-91	RES,CHIP 47K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6183	1-216-057-00	RES,CHIP 2.2K 5% 1/10W					
R6186	1-216-663-11	METAL CHIP 3.3K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6216	1-216-089-91	RES,CHIP 47K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
	1-216-049-91	METAL CHIP 1K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)			1-216-065-00	RES,CHIP 4.7K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6187	1-216-065-91	RES,CHIP 4.7K 5% 1/10W					
R6189	1-216-295-91	SHORT 0 (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6217	1-216-073-00	RES,CHIP 10K 5% 1/10W	
	1-216-049-91	RES,CHIP 1K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6254	1-216-049-91	RES,CHIP 1K 5% 1/10W	
				R6255	1-216-061-00	RES,CHIP 3.3K 5% 1/10W	
R6190	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6256	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
R6191	1-215-925-11	METAL OXIDE 22K 5% 3W F		R6257	1-216-061-00	RES,CHIP 3.3K 5% 1/10W	
R6192	1-216-665-11	METAL CHIP 3.9K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6258	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
	1-216-683-11	METAL CHIP 22K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6259	1-216-097-91	RES,CHIP 100K 5% 1/10W	
				R6260	1-216-049-91	RES,CHIP 1K 5% 1/10W	
R6194	1-216-065-91	RES,CHIP 4.7K 5% 1/10W		R6261	1-216-097-91	RES,CHIP 100K 5% 1/10W	
R6195	1-216-683-11	METAL CHIP 22K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6262	1-260-321-71	CARBON 270 5% 1/2W	
	1-216-695-11	METAL CHIP 68K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)					
R6196	1-249-377-11	CARBON 0.47 5% 1/4W F		R6263	1-216-025-91	RES,CHIP 100 5% 1/10W	
R6198	1-216-081-00	RES,CHIP 22K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6264	1-216-025-91	RES,CHIP 100 5% 1/10W	
	1-216-089-00	RES,CHIP 47K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6265	1-216-097-91	RES,CHIP 100K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
					1-216-103-00	RES,CHIP 180K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6199	1-216-081-00	RES,CHIP 22K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6267	1-216-049-91	RES,CHIP 1K 5% 1/10W	
	1-216-089-00	RES,CHIP 47K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6268	1-216-085-00	RES,CHIP 33K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
				R6269	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R6200	1-218-762-11	METAL CHIP 270K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6270	1-216-667-11	METAL CHIP 4.7K 0.50% 1/10W	
R6205	1-216-025-91	RES,CHIP 100 5% 1/10W					
R6206	1-216-105-91	RES,CHIP 220K 5% 1/10W		R6271	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R6207	1-216-101-00	RES,CHIP 150K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6272	1-216-081-00	RES,CHIP 22K 5% 1/10W	
	1-216-109-00	RES,CHIP 330K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6273	1-216-081-00	RES,CHIP 22K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6208	1-216-089-91	RES,CHIP 47K 5% 1/10W		R6276	1-216-689-11	METAL CHIP 39K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6210	1-216-057-00	RES,CHIP 2.2K 5% 1/10W			1-216-686-11	METAL CHIP 30K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6211	1-216-073-00	RES,CHIP 10K 5% 1/10W					
R6212	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6277	1-216-686-11	METAL CHIP 30K 0.50% 1/10W	
				R6278	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
				R6279	1-216-057-00	RES,CHIP 2.2K 5% 1/10W	
				R6280	1-249-377-11	CARBON 0.47 5% 1/4W F	
				R6281	1-249-377-11	CARBON 0.47 5% 1/4W F	
				R6282	1-215-886-11	METAL OXIDE 100 5% 2W F	
				R6283	1-216-393-00	METAL OXIDE 2.2 5% 3W F	

MC-Service

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R6284	1-216-113-00	RES,CHIP 470K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6372	1-216-033-00	RES,CHIP 220 5% 1/10W	
	1-216-109-00	RES,CHIP 330K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6373	1-216-681-11	METAL CHIP 18K 0.50% 1/10W	
R6285	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6374	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R6286	1-216-073-00	RES,CHIP 10K 5% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6375	1-216-041-00	RES,CHIP 470 5% 1/10W	
	1-216-069-00	RES,CHIP 6.8K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6377	1-216-689-11	METAL CHIP 39K 0.50% 1/10W	
R6287	1-216-073-00	RES,CHIP 10K 5% 1/10W		R6378	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R6313	1-216-295-91	SHORT 0		R6379	1-216-295-91	SHORT 0	
R6322	1-216-049-91	RES,CHIP 1K 5% 1/10W		R6380	1-218-754-11	METAL CHIP 120K 0.50% 1/10W	
R6323	1-216-049-91	RES,CHIP 1K 5% 1/10W		R6381	1-216-045-00	RES,CHIP 680 5% 1/10W	
R6324	1-216-025-91	RES,CHIP 100 5% 1/10W		R6382	1-218-754-11	METAL CHIP 120K 0.50% 1/10W	
R6325	1-216-025-91	RES,CHIP 100 5% 1/10W		R6383	1-216-687-11	METAL CHIP 33K 0.50% 1/10W	
R6350	1-216-089-91	RES,CHIP 47K 5% 1/10W		R6384	1-216-043-91	RES,CHIP 560 5% 1/10W	
R6351	1-218-762-11	METAL CHIP 270K 0.50% 1/10W		R6385	1-216-295-91	SHORT 0	
R6353	1-216-668-11	METAL CHIP 5.1K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6386	1-216-699-11	METAL CHIP 100K 0.50% 1/10W	
	1-216-671-11	METAL CHIP 6.8K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6387	1-216-677-11	METAL CHIP 12K 0.50% 1/10W	
R6355	1-218-774-11	METAL CHIP 820K 0.50% 1/10W		R6391	1-249-417-11	CARBON 1K 5% 1/4W	
R6356	1-216-675-11	METAL CHIP 10K 0.50% 1/10W		R6394	1-216-069-00	RES,CHIP 6.8K 5% 1/10W	
R6357	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6395	1-216-081-00	RES,CHIP 22K 5% 1/10W	
R6358	1-216-047-91	RES,CHIP 820 5% 1/10W		R6397	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R6359	1-216-097-91	RES,CHIP 100K 5% 1/10W		R6398	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
R6360	1-216-073-00	RES,CHIP 10K 5% 1/10W		R6399	1-218-758-11	METAL CHIP 180K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6361	1-216-097-91	RES,CHIP 100K 5% 1/10W			1-218-756-11	METAL CHIP 150K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6362	1-216-687-11	METAL CHIP 33K 0.50% 1/10W		R6400	1-216-675-11	METAL CHIP 10K 0.50% 1/10W	
R6363	1-216-675-11	METAL CHIP 10K 0.50% 1/10W		R6401	1-216-295-91	SHORT 0	
R6364	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6402	1-216-295-91	SHORT 0	
R6365	1-216-033-00	RES,CHIP 220 5% 1/10W		R6403	1-216-661-11	METAL CHIP 2.7K 0.50% 1/10W	
R6366	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		R6404	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R6367	1-216-679-11	METAL CHIP 15K 0.50% 1/10W		R6405	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
R6368	1-218-758-11	METAL CHIP 180K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6409	1-216-025-91	RES,CHIP 100 5% 1/10W	
	1-218-760-11	METAL CHIP 220K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6410	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6369	1-218-762-11	METAL CHIP 270K 0.50% 1/10W		R6411	1-216-073-00	RES,CHIP 10K 5% 1/10W	
R6370	1-216-675-11	METAL CHIP 10K 0.50% 1/10W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6412	1-216-073-00	RES,CHIP 10K 5% 1/10W	
	1-216-677-11	METAL CHIP 12K 0.50% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6413	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
R6371	1-216-473-11	METAL OXIDE 56 5% 3W (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6414	1-216-679-11	METAL CHIP 15K 0.50% 1/10W	
	1-216-474-11	METAL OXIDE 82 5% 3W F (KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6415	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
				R6416	1-216-683-11	METAL CHIP 22K 0.50% 1/10W	
				R6418	1-216-093-00	RES,CHIP 33K 5% 1/10W	
				R6419	1-216-073-00	RES,CHIP 10K 5% 1/10W	
				R6420	1-216-091-00	RES,CHIP 22K 5% 1/10W	
				R6421	1-216-637-11	METAL CHIP 270 0.50% 1/10W	
				R6422	1-216-639-11	METAL CHIP 330 0.50% 1/10W	
				R6423	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W	
				R6426	1-216-081-00	RES,CHIP 22K 5% 1/10W	
				R6427	1-216-081-00	RES,CHIP 22K 5% 1/10W	
				R6428	1-216-107-00	RES,CHIP 150K 5% 1/10W	
				R6429	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	
				R6430	1-216-065-91	RES,CHIP 4.7K 5% 1/10W	

The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.

D1

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R6431	1-216-113-00	RES,CHIP 470K 5% 1/10W (KV-32FS60A/32FS60B/32FS60D/32FS60E)		C6626	1-164-625-11	CERAMIC 680PF 10% 500V	
R6432	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		C6627	1-164-625-11	CERAMIC 680PF 10% 500V	
R6433	1-216-073-00	RES,CHIP 10K 5% 1/10W		C6628	1-126-936-11	ELECT 3300MF 20% 16V	
R6437	1-249-422-11	CARBON 2.7K 5% 1/4W		C6629	1-128-548-11	ELECT 4700MF 20% 25V	
R6438	1-249-421-11	CARBON 2.2K 5% 1/4W		C6630	1-110-626-11	ELECT 330MF 20% 160V	
R6439	1-216-683-11	METAL CHIP 22K 0.50% 1/10W		C6631	1-126-955-11	ELECT 4700MF 20% 35V	
R6440	1-216-683-11	METAL CHIP 22K 0.50% 1/10W		C6632	1-126-955-11	ELECT 4700MF 20% 35V	
R6441	1-216-673-11	METAL CHIP 8.2K 0.50% 1/10W		C6633	1-126-935-11	ELECT 470MF 20% 16V	
R6442	1-216-039-00	RES,CHIP 390 5% 1/10W		C6634	1-136-165-00	FILM 0.1MF 5% 50V	
R6455	1-216-295-91	SHORT 0		C6635	1-104-664-11	ELECT 47MF 20% 25V	
R6456	1-216-097-91	RES,CHIP 100K 5% 1/10W		C6636	1-102-129-00	CERAMIC 0.01MF 10% 50V	
R6457	1-216-075-00	RES,CHIP 12K 5% 1/10W		C6637	1-102-129-00	CERAMIC 0.01MF 10% 50V	
R6458	1-216-089-91	RES,CHIP 47K 5% 1/10W		C6638	1-137-368-11	FILM 0.0047MF 5% 50V	
R6459	1-216-057-00	RES,CHIP 2.2K 5% 1/10W		C6639	1-102-228-00	CERAMIC 470PF 10% 500V	
R6460	1-249-393-11	CARBON 10 5% 1/4W		C6641	1-126-967-11	ELECT 47MF 20% 50V	
R6461	1-249-411-11	CARBON 330 5% 1/4W		C6642	1-126-964-11	ELECT 10MF 20% 50V	
R6462	1-249-406-11	CARBON 120 5% 1/4W		C6647	1-104-664-11	ELECT 47MF 20% 25V	
R6463	1-216-095-00	RES,CHIP 82K 5% 1/10W		C6649	1-126-965-11	ELECT 22MF 20% 50V	
R6464	1-216-079-00	RES,CHIP 18K 5% 1/10W		C6651	1-162-599-12	CERAMIC 0.0047MF 250V	
*****				C6652	1-107-679-91	ELECT 10MF 20% 450V	
*A-1640-342-A D BOARD, COMPLETE (KV-29FS60) *****				C6653	1-126-968-11	ELECT 100MF 20% 50V	
*A-1640-326-A D BOARD, COMPLETE (KV-32FS60) *****				C6654	1-162-117-00	CERAMIC 100PF 10% 500V	
4-201-023-01 SPACER, INSULATING				C6655	1-109-879-11	CERAMIC 22PF 5% 2KV	
4-202-373-01 SPRING, IC				C6656	1-126-967-11	ELECT 47MF 20% 50V	
4-382-854-11 SCREW (M3X10), P, SW (+)				C6657	1-126-941-11	ELECT 470MF 20% 25V	
*4-931-401-01 HEAT SINK, V.OUT				C6658	1-104-665-11	ELECT 100MF 20% 25V	
< CAPACITOR >				C6659	1-104-665-11	ELECT 100MF 20% 25V	
C6600	Δ 1-161-744-00	CERAMIC 0.01MF 400V		C6661	1-117-753-11	ELECT (BLOCK) 470MF 20% 450V	
C6603	1-126-933-11	ELECT 100MF 20% 16V		C6662	1-136-165-00	FILM 0.1MF 5% 50V	
C6604	1-126-767-11	ELECT 1000MF 20% 16V		C6664	1-136-153-00	FILM 0.01MF 5% 50V	
C6605	Δ 1-119-888-51	CERAMIC 2200PF 20% 250V		C6665	1-136-165-00	FILM 0.1MF 5% 50V	
C6606	Δ 1-119-888-51	CERAMIC 2200PF 20% 250V		C6666	1-136-165-00	FILM 0.1MF 5% 50V	
C6607	Δ 1-107-565-11	FILM 0.33MF 20% 300V		C6667	1-126-933-11	ELECT 100MF 20% 16V	
C6608	Δ 1-162-599-12	CERAMIC 0.0047MF 250V		C6668	1-126-933-11	ELECT 100MF 20% 16V	
C6609	Δ 1-162-599-12	CERAMIC 0.0047MF 250V		C6669	1-136-165-00	FILM 0.1MF 5% 50V	
C6610	1-162-599-12	CERAMIC 0.0047MF 250V		C6670	1-136-165-00	FILM 0.1MF 5% 50V	
C6611	1-162-599-12	CERAMIC 0.0047MF 250V		C6671	1-104-664-11	ELECT 47MF 20% 16V	
C6612	1-161-744-00	CERAMIC 0.01MF 400V		C6672	1-104-664-11	ELECT 47MF 20% 16V	
C6616	1-164-625-11	CERAMIC 680PF 10% 500V		C6673	1-104-664-11	ELECT 47MF 20% 16V	
C6617	1-164-625-11	CERAMIC 680PF 10% 500V		C6677	1-136-165-00	FILM 0.1MF 5% 50V	
C6618	1-136-175-00	FILM 0.68MF 5% 50V		C6679	1-130-495-00	FILM 0.1MF 5% 50V	
C6619	1-137-194-91	FILM 0.47MF 5% 50V		C6680	1-137-370-11	FILM 0.01MF 5% 50V	
C6620	1-136-618-11	FILM 0.047MF 5% 1.25KV		C6681	1-126-964-11	ELECT 10MF 20% 50V	
C6621	1-136-175-00	FILM 0.68MF 5% 50V		C6682	1-107-680-91	ELECT 22MF 20% 450V	
C6622	1-164-625-11	CERAMIC 680PF 10% 500V		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)			
C6623	1-137-194-91	FILM 0.47MF 5% 50V		C6700	1-102-129-00	CERAMIC 0.01MF 10% 50V	
C6624	1-126-968-11	ELECT 100MF 20% 50V		C6703	1-128-527-11	ELECT 330MF 20% 25V	
				C6704	1-126-968-11	ELECT 100MF 20% 50V	
				C6705	1-128-527-11	ELECT 330MF 20% 25V	
				C6706	1-106-228-00	MYLAR 0.22MF 10% 100V	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C6707	1-129-702-00	FILM	0.001MF 10% 400V	C6843	1-136-177-00	FILM	1MF 5% 50V
C6708	1-106-220-00	MYLAR	0.1MF 10% 100V	C6851	1-162-131-11	CERAMIC	220PF 10% 2KV
C6709	1-102-129-00	CERAMIC	0.01MF 10% 50V	C6852	1-162-129-00	CERAMIC	150PF 10% 2KV
C6710	1-130-785-11	MYLAR	0.47MF 10% 100V	C6853	1-137-536-11	FILM	0.0022MF 5% 630V
C6727	1-102-228-00	CERAMIC	470PF 10% 500V	C6855	1-136-205-11	FILM	0.022MF 10% 400V
C6801	1-104-664-11	ELECT	47MF 20% 25V	C6856	1-102-030-00	CERAMIC	330PF 10% 500V
C6802	1-126-960-11	ELECT	1MF 20% 50V	C6857	1-130-785-11	FILM	0.47MF 10% 100V
C6803	1-126-960-11	ELECT	1MF 20% 50V	C6861	1-137-364-11	FILM	0.001MF 5% 50V
C6804	1-102-114-00	CERAMIC	470PF 10% 50V	C6862	1-137-364-11	FILM	0.001MF 5% 50V
C6805	1-102-114-00	CERAMIC	470PF 10% 50V	< CONNECTOR >			
C6808	1-102-030-00	CERAMIC	330PF 10% 500V	CN6100	1-785-802-11	20PIN CONNECTOR	
C6809	1-102-030-00	CERAMIC	330PF 10% 500V	CN6101	1-785-802-11	20PIN CONNECTOR	
C6810	1-107-368-11	FILM	0.047MF 10% 200V	CN6102	1-785-802-11	20PIN CONNECTOR	
C6811	1-107-368-11	FILM	0.047MF 10% 200V	CN6500	1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
C6812	1-162-131-11	CERAMIC	220PF 10% 2KV	CN6600	1-695-299-11	CONNECTOR, BOARD TO BOARD 50P	
C6813	1-162-558-11	CERAMIC	100PF 10% 2KV (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	CN6611	*1-785-270-11	PIN, DY CONNECTOR (PC BOARD)	
	1-162-134-11	CERAMIC	470PF 10% 2KV (KV-32FS60A/32FS60B/32FS60D/32FS60E)	CN6620	Δ 1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
C6814	1-117-640-11	FILM	6800PF 3% 1.2KV	CN6655	1-695-915-11	TAB (CONTACT)	
C6815	1-117-835-11	FILM	6200PF 3% 2KV	CN6666	Δ 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
C6816	1-137-364-11	FILM	0.001MF 5% 50V	CN6677	1-695-915-11	TAB (CONTACT)	
C6817	1-125-893-11	FILM	680PF 3% 2KV	CN6688	1-695-915-11	TAB (CONTACT)	
C6818	1-125-893-11	FILM	680PF 3% 2KV	CN6700	Δ *1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
C6819	1-125-893-11	FILM	680PF 3% 2KV	< DIODE >			
C6820	1-125-893-11	FILM	680PF 3% 2KV	D6600	8-719-911-19	DIODE 1SS119-25	
C6824	1-107-846-11	FILM	0.1MF 5% 200V	D6601	8-719-510-64	DIODE S2LA20F	
C6825	1-107-846-11	FILM	0.1MF 5% 250V	D6602	8-719-109-89	DIODE RD5.6ESB2	
C6826	1-115-518-11	FILM	0.47MF 5% 250V (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	D6603	8-719-911-19	DIODE 1SS119-25	
	1-115-519-11	FILM	0.56MF 5% 250V (KV-32FS60A/32FS60B/32FS60D/32FS60E)	D6604	8-719-510-53	DIODE D4SB60L	
C6827	1-115-511-11	FILM	0.12MF 5% 250V (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	D6610	8-719-510-64	DIODE S2LA20F	
	1-107-846-11	FILM	0.1MF 5% 250V (KV-32FS60A/32FS60B/32FS60D/32FS60E)	D6613	8-719-911-19	DIODE 1SS119-25	
C6828	1-127-681-11	CAPACITOR	10000PF 2% 100V	D6615	8-719-911-19	DIODE 1SS119-25	
C6829	1-127-680-11	CAPACITOR	4700PF 2% 100V	D6616	8-719-510-12	DIODE D10SC4M	
C6830	1-107-655-11	ELECT	47MF 20% 250V	D6617	8-719-500-71	DIODED8LC40	
C6831	1-102-228-00	CERAMIC	470PF 10% 500V	D6618	8-719-047-31	DIODE RBA-402L	
C6832	1-126-941-11	ELECT	470MF 20% 25V	D6619	8-719-510-12	DIODE D10SC4M	
C6833	1-126-941-11	ELECT	470MF 20% 25V	D6620	8-719-510-09	DIODE D10SC6M	
C6834	1-102-228-00	CERAMIC	470PF 10% 500V	D6621	8-719-991-33	DIODE 1SS133T-77	
C6835	1-102-228-00	CERAMIC	470PF 10% 500V	D6622	8-719-991-33	DIODE 1SS133T-77	
C6836	1-123-024-21	ELECT	33MF 160V	D6623	8-719-911-19	DIODE 1SS119-25	
C6837	1-106-375-12	MYLAR	0.022MF 10% 250V	D6624	8-719-991-33	DIODE 1SS133T-77	
C6840	1-137-370-11	FILM	0.01MF 5% 50V	D6625	8-719-991-33	DIODE 1SS133T-77	
C6841	1-104-664-11	ELECT	47MF 20% 16V	D6627	8-719-982-27	DIODE MTZJ-33C	
C6842	1-136-207-11	FILM	0.047MF 10% 400V	D6628	8-719-109-97	DIODE RD6.8ESB2	
				D6629	8-719-991-33	DIODE 1SS133T-77	
				D6630	8-719-991-33	DIODE 1SS133T-77	
				D6651	8-719-068-00	DIODE ERC04-06SE	
				D6652	8-719-923-78	DIODE MTZJ-T-77-12	
				D6653	8-719-510-64	DIODE S2LA20F	
				D6654	8-719-059-23	DIODE P6KE200AG23	

The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.

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REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
D6655	8-719-979-64	DIODE UF4005PKG23		L6607	1-412-525-31	INDUCTOR 10UH	
D6656	8-719-510-64	DIODE S2LA20F		L6651	1-414-183-41	INDUCTOR 10UH	
D6658	8-719-068-00	DIODE ERC04-06SE		L6700	1-412-524-11	INDUCTOR 8.2UH	
D6659	8-719-510-64	DIODE S2LA20F		L6801	1-412-519-11	INDUCTOR 3.3UH	
D6676	8-719-991-33	DIODE 1SS133T-77		L6802	1-412-519-11	INDUCTOR 3.3UH	
D6677	8-719-921-40	DIODE MTZJ-4.7C		L6803	1-412-519-11	INDUCTOR 3.3UH	
D6678	8-719-921-40	DIODE MTZJ-4.7C		L6805	1-408-947-00	INDUCTOR 2.2MMH	
D6679	8-719-991-33	DIODE 1SS133T-77		L6806	1-410-397-21	FERRITE 1.1UH	
D6700	8-719-908-03	DIODE GP08D		L6807	1-410-397-21	FERRITE 1.1UH	
D6701	8-719-110-41	DIODE RD15ESB2		L6808	1-406-675-11	INDUCTOR 0UH	
D6803	8-719-908-03	DIODE GP08D		L6851	1-535-303-00	LEAD, JUMPER (5.0MM)	
D6804	1-535-143-11	LEAD, JUMPER (10.0MM)					
D6805	8-719-302-43	DIODE EL1Z				< FILTER >	
D6806	8-719-979-85	DIODE EGP20G		LF6603	1-406-660-41	INDUCTOR 0UH	
D6807	8-719-510-73	DIODE S3L20UF4		LF6604	1-406-660-41	INDUCTOR 0UH	
D6808	8-719-510-73	DIODE S3L20UF4		LF6801	1-406-985-11	INDUCTOR 0UH	
D6809	8-719-991-33	DIODE 1SS133T-77		LF6851	1-406-674-11	INDUCTOR 0UH	
D6810	8-719-110-41	DIODE RD15ESB2				< IC LINK >	
D6811	8-719-110-41	DIODE RD15ESB2		PS6601 Δ	1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D6812	8-719-991-33	DIODE 1SS133T-77		PS6602 Δ	1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D6813	8-719-110-41	DIODE RD15ESB2		PS6603 Δ	1-801-549-21	PROTECTOR MODULE 4.0A MP250	
D6851	8-719-970-87	DIODE ERA38-06		PS6604 Δ	1-801-550-21	PROTECTOR MODULE 2.5A MP250	
D6852	8-719-970-87	DIODE ERA38-06		PS6605 Δ	1-801-550-21	PROTECTOR MODULE 2.5A MP250	
		< FERRITE BEAD >				< TRANSISTOR >	
FB6602	1-410-396-41	FERRITE 0.45UH		Q6600	8-729-046-47	TRANSISTOR KSC2500-BTA	
FB6603	1-410-396-41	FERRITE 0.45UH		Q6602	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
		< IC >		Q6603	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC6600	1-810-051-11	POWER MODULE DM-48		Q6605	8-729-046-47	TRANSISTOR KSC2500-BTA	
IC6604	8-729-045-40	TRANSISTOR MX0842A-F		Q6606	8-729-029-56	TRANSISTOR DTA144ESA	
IC6651	8-759-468-89	IC TOP209P		Q6607	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC6652	8-759-604-39	IC M5F78M12L		Q6608	8-729-029-66	TRANSISTOR DTC114ESA	
IC6653	8-759-544-13	IC KA78R09TU		Q6651	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
IC6654	8-759-457-44	IC KA78R05TU		Q6652	8-729-029-86	TRANSISTOR DTC124ESA	
IC6667	8-759-908-15	IC TL431CLP		Q6667	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
IC6676	8-759-908-15	IC TL431CLP		Q6676	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC6700	8-759-192-71	IC STV9379		Q6677	8-729-119-78	TRANSISTOR 2SC2785-HFE	
IC6801	8-759-103-93	IC UPC393C		Q6678	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< COIL >		Q6679	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
L6601	1-408-947-00	INDUCTOR 2.2MMH (KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		Q6680	8-729-029-66	TRANSISTOR DTC114ESA	
	1-535-303-00	LEAD, JUMPER (5.0MM) (KV-32FS60A/32FS60B/32FS60D/32FS60E)		Q6681	8-729-029-66	TRANSISTOR DTC114ESA	
L6602	1-412-529-11	INDUCTOR 22UH		Q6700	8-729-039-68	TRANSISTOR IRF620	
L6603	1-412-529-11	INDUCTOR 22UH		Q6801	8-729-119-80	TRANSISTOR 2SC2688-LK	
L6604	1-412-525-31	INDUCTOR 10UH		Q6802	8-729-119-80	TRANSISTOR 2SC2688-LK	
L6605	1-412-525-31	INDUCTOR 10UH		Q6803	8-729-046-18	TRANSISTOR 2SC5480-01	
L6606	1-412-525-31	INDUCTOR 10UH		Q6804	8-729-046-18	TRANSISTOR 2SC5480-01	
				Q6805	8-729-038-83	TRANSISTOR 2SK2251-01-F19	
				Q6806	8-729-930-91	TRANSISTOR IRF740	
				Q6807	8-729-030-02	TRANSISTOR DTC144ESA	
				Q6809	8-729-119-78	TRANSISTOR 2SC2785-HFE	

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
Q6810	8-729-026-41	TRANSISTOR 2SA933AS-QRT		R6666	1-202-933-61	FUSIBLE 0.1 10% 1/2W F	
Q6851	8-729-043-95	TRANSISTOR 2SC3840(3)		R6667	1-215-441-00	METAL 6.8K 1% 1/4W	
< RESISTOR >				R6668	1-249-429-11	CARBON 10K 5% 1/4W	
R6601	Δ 1-202-968-11	CEMENTED 1.2 5% 10W		R6669	1-249-413-11	CARBON 470 5% 1/4W	
R6603	1-249-430-11	CARBON 12K 5% 1/4W		R6670	1-249-429-11	CARBON 10K 5% 1/4W	
R6604	1-249-421-11	CARBON 2.2K 5% 1/4W		R6676	1-249-417-11	CARBON 1K 5% 1/4W	
R6605	1-249-417-11	CARBON 1K 5% 1/4W F		R6677	1-249-417-11	CARBON 1K 5% 1/4W	
R6606	Δ 1-202-968-11	CEMENTED 1.2 5% 10W		R6678	1-249-417-11	CARBON 1K 5% 1/4W	
R6608	Δ 1-220-797-11	CEMENTED 0.47 5% 10W F		R6679	1-215-479-00	METAL 270K 1% 1/4W	
R6611	1-260-125-11	CARBON 150K 5% 1/2W		R6681	1-215-467-00	METAL 82K 1% 1/4W	
R6612	1-260-125-11	CARBON 150K 5% 1/2W		R6682	1-215-447-00	METAL 12K 1% 1/4W	
R6613	1-216-369-00	METAL OXIDE 1 5% 2W F		R6683	1-215-429-00	METAL 2.2K 1% 1/4W	
R6614	1-260-125-11	CARBON 150K 5% 1/2W		R6684	1-247-807-31	CARBON 100 5% 1/4W	
R6615	1-260-125-11	CARBON 150K 5% 1/2W		R6685	1-249-417-11	CARBON 1K 5% 1/4W	
R6616	1-216-369-00	METAL OXIDE 1 5% 2W F		R6686	1-215-449-00	METAL 15K 1% 1/4W	
R6619	1-249-425-11	CARBON 4.7K 5% 1/4W		R6687	1-249-431-11	CARBON 15K 5% 1/4W	
R6620	1-249-443-11	CARBON 0.47 5% 1/4W F		R6688	1-249-417-11	CARBON 1K 5% 1/4W	
R6624	1-249-425-11	CARBON 4.7K 5% 1/4W		R6700	1-215-441-00	METAL 6.8K 1% 1/4W	
R6625	1-249-429-11	CARBON 10K 5% 1/4W		R6701	1-215-437-00	METAL 4.7K 1% 1/4W	
R6626	1-247-807-31	CARBON 100 5% 1/4W		R6702	1-215-441-00	METAL 6.8K 1% 1/4W	
R6627	1-249-429-11	CARBON 10K 5% 1/4W		R6703	1-215-437-00	METAL 4.7K 1% 1/4W	
R6628	1-260-129-11	CARBON 330K 5% 1/2W		R6704	1-249-383-11	CARBON 1.5 5% 1/4W F	
R6629	1-260-129-11	CARBON 330K 5% 1/2W		R6705	1-247-791-91	CARBON 22 5% 1/4W	
R6630	1-249-417-11	CARBON 1K 5% 1/4W		R6707	1-215-888-00	METAL OXIDE 220 5% 2W F	
R6631	1-249-425-11	CARBON 4.7K 5% 1/4W		R6708	1-214-798-21	METAL 1.8 1% 1/2W	
R6632	1-207-905-00	WIREWOUND 0.27 10% 2W F		R6709	1-214-798-21	METAL 1.8 1% 1/2W	
R6633	1-249-429-11	CARBON 10K 5% 1/4W		R6710	1-247-843-11	CARBON 3.3K 5% 1/4W	
R6635	1-249-443-11	CARBON 0.47 5% 1/4W		R6711	1-249-418-11	CARBON 1.2K 5% 1/4W	
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)		R6801	1-215-440-00	METAL 6.2K 1% 1/4W	
1-535-303-00	LEAD, JUMPER (5.0MM)			R6802	1-214-915-00	METAL 120K 1% 1/2W	
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)		R6803	1-249-421-11	CARBON 2.2K 5% 1/4W	
R6637	1-249-421-11	CARBON 2.2K 5% 1/4W		R6804	1-247-807-31	CARBON 100 5% 1/4W	
R6638	1-247-895-91	CARBON 470K 5% 1/4W		R6805	1-247-807-31	CARBON 100 5% 1/4W	
R6639	1-249-416-11	CARBON 820 5% 1/4W		R6806	1-249-411-11	CARBON 680 5% 1/4W	
R6640	1-249-417-11	CARBON 1K 5% 1/4W		R6807	1-249-411-11	CARBON 330 5% 1/4W	
R6641	1-260-127-11	CARBON 220K 5% 1/2W		R6808	1-260-340-11	CARBON 10K 5% 1/2W	
R6642	1-249-389-11	CARBON 4.7 5% 1/4W F		R6809	1-260-340-11	CARBON 10K 5% 1/2W	
R6643	1-249-417-11	CARBON 1K 5% 1/4W F		R6810	1-215-920-11	METAL OXIDE 3.3K 5% 3W	
R6644	1-249-429-11	CARBON 10K 5% 1/4W				(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6645	1-260-131-11	CARBON 470K 5% 1/2W		1-216-460-11	METAL OXIDE 3.9K 5% 3W F		
R6646	1-249-429-11	CARBON 10K 5% 1/4W				(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6647	1-249-410-11	CARBON 270 5% 1/4W		R6811	1-216-461-00	METAL OXIDE 5.6K 5% 2W F	
R6648	1-247-863-91	CARBON 22K 5% 1/4W		R6812	1-215-895-11	METAL OXIDE 3.3K 5% 2W F	
R6649	1-215-926-00	METAL OXIDE 33K 5% 3W F		R6813	1-215-920-11	METAL OXIDE 3.3K 5% 3W F	
R6651	1-247-791-91	CARBON 22 5% 1/4W				(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U)	
R6652	1-249-389-11	CARBON 4.7 5% 1/4W F		1-215-895-11	METAL OXIDE 3.3K 5% 2W		
						(KV-32FS60A/32FS60B/32FS60D/32FS60E)	
R6653	1-249-421-11	CARBON 2.2K 5% 1/4W		R6814	1-215-880-00	METAL OXIDE 10 5% 2W F	
R6655	1-249-429-11	CARBON 10K 5% 1/4W		R6815	1-215-880-00	METAL OXIDE 10 5% 2W F	
R6656	Δ 1-218-265-11	METAL 8.2M 5% 1W		R6816	1-216-361-00	METAL OXIDE 0.22 5% 2W F	
R6657	1-215-425-00	METAL 1.5K 1% 1/4W					

The components identified by shading and marked Δ are critical for safety
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REF. NO.	PART.NO	DESCRIPTION	REMARK				REF. NO.	PART.NO	DESCRIPTION	REMARK			
R6817	1-216-361-00	METAL OXIDE	0.22	5%	2W	F	R6896	1-249-443-11	CARBON	0.47	5%	1/4W	F
R6818	1-247-807-31	CARBON	100	5%	1/4W		R6897	1-215-485-00	METAL	470K	1%	1/4W	
R6819	1-247-807-31	CARBON	100	5%	1/4W		R6898	1-215-493-00	METAL	1M	1%	1/4W	
R6831	1-260-124-11	CARBON	120K	5%	1/2W		R6899	1-215-493-00	METAL	1M	1%	1/4W	
R6832	1-216-434-11	METAL OXIDE	1.8K	5%	1W	F	< RELAY >						
R6833	1-202-972-61	FUSIBLE	1	5%	1/4W	F							
R6834	1-249-377-11	CARBON	0.47	5%	1/4W	F	RY6601 Δ 1-755-266-11 RELAY, AC POWER						
R6835	1-249-377-11	CARBON	0.47	5%	1/4W	F	RY6602 Δ 1-755-167-11 RELAY, AC POWER						
R6836	1-249-431-11	CARBON	15K	5%	1/4W		< TRANSFORMER >						
R6837	1-215-919-11	METAL OXIDE	2.2K	5%	3W	F							
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/29FS60K/29FS60R/29FS60U)					T6600	Δ	1-431-616-11	TRANSFORMER, CONVERTER			
	1-215-894-11	METAL OXIDE	2.2K	5%	2W		T6601	Δ	1-433-516-11	TRANSFORMER, CONVERTER			
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)					T6651		1-431-732-11	TRANSFORMER, CONVERTER (SRT)			
R6838	1-214-905-11	METAL	47K	1%	1/2W		T6801		1-433-489-11	TRANSFORMER, FERRITE (HDT)			
R6839	1-215-919-11	METAL OXIDE	2.2K	5%	3W	F	T6802		1-433-489-11	TRANSFORMER, FERRITE (HDT)			
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/29FS60K/29FS60R/29FS60U)					T6804	Δ	1-453-272-11	TRANSFORMER FLYBACK ASSEMBLY NX-4512/U2B4			
	1-215-894-11	METAL OXIDE	2.2K	5%	2W		T6805		1-429-741-11	TRANSFORMER, DRIVE			
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)					T6852		1-426-896-11	TRANSFORMER, FERRITE (DFT)			
R6840	1-247-843-11	CARBON	3.3K	5%	1/4W		< THERMISTOR >						
R6842	1-260-123-11	CARBON	100K	5%	1/2W								
R6843	1-249-429-11	CARBON	10K	5%	1/4W		TH6600	Δ	1-809-827-11	THERMISTOR, POSITIVE			
R6844	1-249-441-11	CARBON	100K	5%	1/4W		TH6700		1-800-193-00	THERMISTOR			
R6845	1-247-863-91	CARBON	22K	5%	1/4W		*****						
R6851	1-260-123-11	CARBON	100K	5%	1/2W		*A-1644-094-A VM BOARD, COMPLETE (KV-29FS60)						
R6852	1-260-123-11	CARBON	100K	5%	1/2W		*****						
R6853	1-260-123-11	CARBON	100K	5%	1/2W		*A-1644-095-A VM BOARD, COMPLETE (KV-32FS60)						
R6854	1-249-417-11	CARBON	1K	5%	1/4W		*****						
R6856	1-216-485-11	METAL OXIDE	5.6K	5%	3W		4-382-854-11 SCREW (M3X10), P, SW (+)						
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/29FS60K/29FS60R/29FS60U)					< CAPACITOR >						
	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F							
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)					C5400		1-107-883-11	ELECT	330MF	20%	16V
R6857	1-216-485-11	METAL OXIDE	5.6K	5%	3W		C5401		1-126-935-11	ELECT	470MF	20%	16V
		(KV-29FS60A/29FS60B/29FS60D/29FS60E/29FS60K/29FS60R/29FS60U)					C5402		1-137-370-11	FILM	0.01MF	5%	50V
	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F	C5403		1-126-935-11	ELECT	470MF	20%	6.3V
		(KV-32FS60A/32FS60B/32FS60D/32FS60E)					C5405		1-126-933-11	ELECT	100MF	20%	16V
R6858	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F	C5406		1-126-935-11	ELECT	470MF	20%	6.3V
R6859	1-215-922-11	METAL OXIDE	6.8K	5%	3W	F	C5407		1-104-989-91	FILM	0.0022MF	5%	200V
R6880	1-215-436-00	METAL	4.3K	1%	1/4W		C5408		1-104-989-91	FILM	0.0022MF	5%	200V
R6885	1-215-493-00	METAL	1M	1%	1/4W		C5409		1-107-649-11	ELECT	2.2MF	20%	250V
R6886	1-215-477-00	METAL	220K	1%	1/4W		C5410		1-137-364-11	FILM	0.001MF	5%	50V
R6887	1-215-461-00	METAL	47K	1%	1/4W		C5411		1-137-364-11	FILM	0.001MF	5%	50V
R6888	1-249-441-11	CARBON	100K	5%	1/4W		C5412		1-126-933-11	ELECT	100MF	20%	16V
R6889	1-249-421-11	CARBON	2.2K	5%	1/4W		C5413		1-126-933-11	ELECT	100MF	20%	16V
R6890	1-247-887-00	CARBON	220K	5%	1/4W		C5414		1-107-638-11	ELECT	33MF	20%	160V
R6891	1-247-895-91	CARBON	470K	5%	1/4W		C5415		1-107-363-91	FILM	0.0068MF	10%	200V
R6892	1-249-437-11	CARBON	47K	5%	1/4W		C5416		1-102-106-00	CERAMIC	100PF	10%	50V
R6893	1-249-429-11	CARBON	10K	5%	1/4W		C5419		1-101-880-00	CERAMIC	47PF	5%	50V
R6894	1-535-303-00	LEAD, JUMPER (5.0MM)					C5430		1-162-117-00	CERAMIC	100PF	10%	500V
R6895	1-249-443-11	CARBON	0.47	5%	1/4W	F							

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C7961	1-101-005-00	CERAMIC 0.022MF	50V	C8134	1-104-664-11	ELECT 47MF	20% 16V
C7962	1-101-005-00	CERAMIC 0.022MF	50V	C8135	1-164-505-11	CERAMIC CHIP 2.2MF	16V
< CONNECTOR >				C8136	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
CN7101	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P		C8137	1-164-505-11	CERAMIC CHIP 2.2MF	16V
CN7977*	1-564-519-11	PLUG, CONNECTOR 4P		C8138	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
CN7988*	1-564-519-11	PLUG, CONNECTOR 4P		C8139	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
CN7990*	1-564-518-11	PLUG, CONNECTOR 3P		C8140	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
CN7999*	1-564-519-11	PLUG, CONNECTOR 4P		C8141	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
< JACK >				C8142	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
J7951	1-694-470-11	TERMINAL BOARD		C8143	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
J7952	1-537-339-11	TERMINAL BOARD		C8144	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
< COIL >				C8145	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
L7950	1-402-711-11	INDUCTOR 0UH		C8146	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
L7952	1-402-711-11	INDUCTOR 0UH		C8150	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
L7954	1-402-711-11	INDUCTOR 0UH		C8151	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
L7956	1-402-711-11	INDUCTOR 0UH		C8152	1-164-346-11	CERAMIC CHIP 1MF	16V
*****				C8153	1-107-682-11	CERAMIC CHIP 1MF	10% 16V
*A-1651-102-A J BOARD, COMPLETE (KV-29FS60A/29FS60D/29FS60E/				C8154	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
***** 29FS60K/29FS60R/29FS60U)				C8155	1-107-682-11	CERAMIC CHIP 1MF	10% 16V
*A-1651-106-A J BOARD, COMPLETE (KV-29FS60B)				C8156	1-164-505-11	CERAMIC CHIP 2.2MF	16V
*****				C8157	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
*A-1651-101-A J BOARD, COMPLETE (KV-32FS60A/32FS60D/32FS60E)				C8159	1-104-664-11	ELECT 47MF	20% 16V
*****				C8161	1-164-505-11	CERAMIC CHIP 2.2MF	16V
*A-1651-107-A J BOARD, COMPLETE (KV-32FS60B)				C8200	1-104-664-11	ELECT 47MF	20% 16V
*****				C8201	1-163-241-11	CERAMIC CHIP 39PF	5% 50V
< CAPACITOR >				C8202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8100	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8101	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8204	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C8102	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V	C8205	1-165-319-11	CERAMIC CHIP 0.1MF	50V
C8103	1-104-664-11	ELECT 47MF	20% 16V	C8208	1-164-506-11	CERAMIC CHIP 4.7MF	16V
C8104	1-126-934-11	ELECT 220MF	20% 16V	C8209	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C8105	1-126-933-11	ELECT 100MF	20% 16V	C8210	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8106	1-126-933-11	ELECT 100MF	20% 16V	C8211	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C8107	1-126-933-11	ELECT 100MF	20% 16V	C8212	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C8108	1-126-933-11	ELECT 100MF	20% 16V	C8213	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C8109	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8214	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V
C8110	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8215	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C8111	1-126-933-11	ELECT 100MF	20% 16V	C8216	1-126-933-11	ELECT 100MF	20% 16V
C8125	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8217	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8126	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8218	1-126-964-11	ELECT 10MF	20% 50V
C8127	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8219	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8128	1-104-664-11	ELECT 47MF	20% 16V	C8220	1-126-964-11	ELECT 10MF	20% 50V
C8129	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8221	1-104-664-11	ELECT 47MF	20% 16V
C8130	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8222	1-104-664-11	ELECT 47MF	20% 16V
C8131	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8223	1-104-664-11	ELECT 47MF	20% 16V
C8132	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8224	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8133	1-104-664-11	ELECT 47MF	20% 16V	C8225	1-104-664-11	ELECT 47MF	20% 16V
				C8228	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C8229	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C8230	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C8231	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
C8232	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8329	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8233	1-104-664-11	ELECT 47MF	20% 16V	C8330	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C8234	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8331	1-126-960-11	ELECT 1MF	20% 50V
C8235	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8332	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C8236	1-126-933-11	ELECT 100MF	20% 16V	C8343	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
						(KV-29FS60B/32FS60B)	
C8237	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C8344	1-163-173-00	CERAMIC CHIP 47PF	5% 50V
C8238	1-164-505-11	CERAMIC CHIP 2.2MF	16V			(KV-29FS60B/32FS60B)	
C8239	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8345	1-126-933-11	ELECT 100MF	20% 16V
C8240	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V			(KV-29FS60B/32FS60B)	
C8241	1-126-964-11	ELECT 10MF	20% 50V	C8401	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8242	1-104-664-11	ELECT 47MF	20% 16V	C8402	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8243	1-110-501-11	CERAMIC CHIP 0.33MF	10% 16V	C8403	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
		(KV-29FS60B/32FS60B)		C8404	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8250	1-164-506-11	CERAMIC CHIP 4.7MF	16V	C8405	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8251	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8406	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8252	1-164-506-11	CERAMIC CHIP 4.7MF	16V	C8407	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8253	1-163-263-11	CERAMIC CHIP 330PF	5% 50V	C8408	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V
C8254	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	C8409	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8255	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C8410	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8256	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8411	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8258	1-126-933-11	ELECT 100MF	20% 16V	C8412	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8260	1-126-933-11	ELECT 100MF	20% 16V	C8413	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8263	1-126-933-11	ELECT 100MF	20% 16V	C8414	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C8300	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	C8415	1-163-231-11	CERAMIC CHIP 15PF	5% 50V
C8301	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8416	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8302	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8417	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C8303	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	C8418	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8304	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8419	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8305	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8420	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8306	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8421	1-126-933-11	ELECT 100MF	20% 16V
C8307	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8422	1-126-960-11	ELECT 1MF	20% 50V
C8308	1-126-933-11	ELECT 100MF	20% 16V	C8423	1-126-933-11	ELECT 100MF	20% 16V
C8310	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8424	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8311	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8425	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8312	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8426	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8313	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8427	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8314	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8450	1-104-664-11	ELECT 47MF	20% 16V
C8315	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8451	1-104-664-11	ELECT 47MF	20% 16V
C8316	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8455	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8317	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V			(KV-29FS60A/29FS60B/29FS60D/29FS60E/ 29FS60K/29FS60R/29FS60U/ 32FS60A/32FS60D/32FS60E)	
C8318	1-126-933-11	ELECT 100MF	20% 16V	C8456	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8319	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8500	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V
C8320	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8501	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8321	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8502	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V
C8322	1-126-933-11	ELECT 100MF	20% 16V	C8503	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8323	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	C8504	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8324	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8505	1-126-933-11	ELECT 100MF	20% 16V
C8325	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	C8506	1-163-037-11	CERAMIC CHIP 0.022MF	10% 50V
C8326	1-163-231-11	CERAMIC CHIP 15PF	5% 50V	C8507	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C8327	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V				
C8328	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V				

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C8508	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C8978	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C8509	1-126-933-11	ELECT 100MF	20% 16V	< FILTER >			
C8510	1-104-664-11	ELECT 47MF	20% 16V	CF8150	1-760-106-11	FILTER, CERAMIC	
C8511	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF8151	1-567-100-00	FILTER, CERAMIC	
C8512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF8152	1-760-450-21	FILTER, CERAMIC	
C8513	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CF8200	1-409-327-00	TRAP, CERAMIC (6.5MHZ)	
C8514	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	< CONNECTOR >			
C8515	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN1402	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
C8516	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V			(KV-29FS60B/32FS60B)	
C8517	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN8101	1-695-302-11	CONNECTOR, BOARD TO BOARD 50P	
C8518	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN8102*	1-564-518-11	PLUG, CONNECTOR 3P	
C8519	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN8900	1-561-534-41	SOCKET, PIN 21P	
C8520	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN8901	1-695-293-11	SOCKET 21P	
C8521	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN8902	1-695-293-11	SOCKET 21P	
C8601	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	< DIODE >			
C8602	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8125	8-719-158-49	DIODE RD12SB2	
C8605	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8126	8-719-158-49	DIODE RD12SB2	
C8606	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8127	8-719-158-49	DIODE RD12SB2	
C8607	1-104-664-11	ELECT 47MF	20% 16V	D8128	8-719-158-49	DIODE RD12SB2	
C8608	1-104-664-11	ELECT 47MF	20% 16V	D8129	8-719-158-49	DIODE RD12SB2	
C8609	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8130	8-719-158-49	DIODE RD12SB2	
C8610	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8131	8-719-158-49	DIODE RD12SB2	
C8611	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8132	8-719-158-49	DIODE RD12SB2	
C8612	1-115-340-11	CERAMIC CHIP 0.22MF	10% 25V	D8150	8-719-421-57	DIODE MA73-TX	
C8613	1-104-664-11	ELECT 47MF	20% 16V	D8151	8-719-421-57	DIODE MA73-TX	
C8614	1-104-664-11	ELECT 47MF	20% 16V	D8152	8-719-421-57	DIODE MA73-TX	
C8700	1-126-964-11	ELECT 10MF	20% 50V	D8200	8-719-158-49	DIODE RD12SB2	
C8701	1-104-664-11	ELECT 47MF	20% 16V	D8201	8-719-158-49	DIODE RD12SB2	
C8702	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	D8202	8-719-158-49	DIODE RD12SB2	
C8703	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D8203	8-719-158-49	DIODE RD12SB2	
C8704	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D8349	8-719-914-42	DIODE DA204K-T-146 (KV-29FS60B/32FS60B)	
C8705	1-163-021-91	CERAMIC CHIP 0.01MF	10% 50V	D8432	8-719-914-42	DIODE DA204K-T-146 (KV-29FS60B/32FS60B)	
C8706	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D8450	8-719-158-49	DIODE RD12SB2	
C8707	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D8451	8-719-158-49	DIODE RD12SB2	
C8708	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	D8900	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8709	1-126-964-11	ELECT 10MF	20% 50V	D8901	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8710	1-126-933-11	ELECT 100MF	20% 16V	D8902	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8900	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8903	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8901	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	D8904	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8902	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	D8905	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8903	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8906	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8904	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8907	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8905	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8908	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8906	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	D8909	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8907	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	D8910	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8908	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8911	8-719-056-85	DIODE UDZ-TE-17-8.2B	
C8909	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	D8912	8-719-158-49	DIODE RD12SB2	
C8910	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D8913	8-719-158-49	DIODE RD12SB2	
C8911	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V				
C8916	1-126-933-11	ELECT 100MF	20% 16V				
C8977	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V				

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L8150	1-414-757-11	INDUCTOR	100UH
L8200	1-412-006-31	INDUCTOR CHIP	10UH
L8201	1-412-064-11	INDUCTOR CHIP	100UH

Q8900 8-729-620-06 TRANSISTOR 2SC3052-EF

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
Q8901	8-729-620-06	TRANSISTOR 2SC3052-EF		R8170	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
Q8903	8-729-620-06	TRANSISTOR 2SC3052-EF		R8171	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
< RESISTOR >				R8172	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R8100	1-216-025-91	RES,CHIP	100 5% 1/10W	R8173	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R8101	1-216-025-91	RES,CHIP	100 5% 1/10W	R8174	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R8102	1-216-295-91	SHORT	0	R8175	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R8103	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8200	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8104	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8201	1-216-295-91	SHORT	0
R8105	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8202	1-216-021-00	RES,CHIP	68 5% 1/10W
R8106	1-216-081-00	RES,CHIP	22K 5% 1/10W	R8203	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R8107	1-216-081-00	RES,CHIP	22K 5% 1/10W	R8204	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8108	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8205	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R8109	1-249-389-11	CARBON	4.7 5% 1/4W F	R8206	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8110	1-249-389-11	CARBON	4.7 5% 1/4W F	R8208	1-216-037-00	RES,CHIP	330 5% 1/10W
R8111	1-216-033-00	RES,CHIP	220 5% 1/10W	R8209	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
R8112	1-216-033-00	RES,CHIP	220 5% 1/10W	R8210	1-216-025-91	RES,CHIP	100 5% 1/10W
R8113	1-216-095-00	RES,CHIP	82K 5% 1/10W	R8212	1-216-295-91	SHORT	0
R8114	1-216-081-00	RES,CHIP	22K 5% 1/10W	R8213	1-216-295-91	SHORT	0
R8115	1-216-033-00	RES,CHIP	150 5% 1/10W	R8214	1-216-295-91	SHORT	0
R8116	1-216-033-00	RES,CHIP	150 5% 1/10W	R8215	1-216-295-91	SHORT	0
R8117	1-216-033-00	RES,CHIP	150 5% 1/10W	R8216	1-216-025-91	RES,CHIP	100 5% 1/10W
R8118	1-216-033-00	RES,CHIP	150 5% 1/10W	R8217	1-216-025-91	RES,CHIP	100 5% 1/10W
R8125	1-216-295-91	SHORT	0	R8218	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8126	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8219	1-216-025-91	RES,CHIP	100 5% 1/10W
R8127	1-216-113-00	RES,CHIP	470K 5% 1/10W	R8220	1-216-025-91	RES,CHIP	100 5% 1/10W
R8128	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8221	1-216-025-91	RES,CHIP	100 5% 1/10W
R8129	1-216-025-91	RES,CHIP	100 5% 1/10W	R8222	1-216-295-91	SHORT	0
R8130	1-216-025-91	RES,CHIP	100 5% 1/10W	R8223	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8131	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8224	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8132	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8225	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8133	1-216-113-00	RES,CHIP	470K 5% 1/10W	R8226	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8150	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8227	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8151	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R8228	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8152	1-216-035-00	RES,CHIP	270 5% 1/10W	R8229	1-216-295-91	SHORT	0
R8153	1-216-081-00	RES,CHIP	22K 5% 1/10W	R8230	1-216-081-00	RES,CHIP	22K 5% 1/10W
R8154	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R8231	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8155	1-216-043-91	RES,CHIP	560 5% 1/10W	R8232	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8156	1-216-081-00	RES,CHIP	22K 5% 1/10W	R8233	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8157	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R8234	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8158	1-216-043-91	RES,CHIP	560 5% 1/10W	R8235	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8159	1-216-081-00	RES,CHIP	22K 5% 1/10W	R8236	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8160	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R8237	1-216-043-91	RES,CHIP	560 5% 1/10W
R8161	1-216-043-91	RES,CHIP	560 5% 1/10W	R8238	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R8162	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8239	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R8163	1-216-295-91	SHORT	0	R8240	1-216-651-11	METAL CHIP	1K 0.50% 1/10W
R8164	1-216-295-91	SHORT	0	R8243	1-216-021-00	RES,CHIP	68 5% 1/10W
R8165	1-216-295-91	SHORT	0	R8250	1-216-295-91	SHORT	0
R8167	1-216-025-91	RES,CHIP	100 5% 1/10W	R8251	1-216-295-91	SHORT	0
R8168	1-216-025-91	RES,CHIP	100 5% 1/10W	R8252	1-216-295-91	SHORT	0
R8169	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8253	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
				R8254	1-216-097-91	RES,CHIP	100K 5% 1/10W



REF. NO.	PART.NO	DESCRIPTION	REMARK			REF. NO.	PART.NO	DESCRIPTION	REMARK		
R8255	1-216-025-91	RES,CHIP	100	5%	1/10W	R8346	1-216-295-91	SHORT	0		
R8256	1-216-295-91	SHORT	0						(KV-29FS60A/29FS60D/29FS60E/		
R8257	1-216-025-91	RES,CHIP	100	5%	1/10W				29FS60K/29FS60R/29FS60U/		
R8258	1-216-025-91	RES,CHIP	100	5%	1/10W				32FS60A/32FS60D/32FS60E)		
R8259	1-216-081-00	RES,CHIP	22K	5%	1/10W	R8347	1-216-025-91	RES,CHIP	100	5%	1/10W
									(KV-29FS60B/32FS60B)		
R8300	1-216-041-00	RES,CHIP	470	5%	1/10W						
R8302	1-216-017-91	RES,CHIP	47	5%	1/10W	R8348	1-216-295-91	SHORT	0		
R8303	1-216-041-00	RES,CHIP	470	5%	1/10W				(KV-29FS60B/32FS60B)		
R8304	1-216-041-00	RES,CHIP	470	5%	1/10W	R8349	1-216-121-91	RES,CHIP	1M	5%	1/10W
R8305	1-216-049-91	RES,CHIP	1K	5%	1/10W				(KV-29FS60B/32FS60B)		
					(KV-29FS60B/32FS60B)	R8350	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8306	1-216-295-91	SHORT	0			R8351	1-216-073-00	RES,CHIP	10K	5%	1/10W
R8307	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8352	1-216-089-91	RES,CHIP	47K	5%	1/10W
R8308	1-216-057-00	RES,CHIP	2.2K	5%	1/10W				(KV-29FS60B/32FS60B)		
R8309	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8353	1-216-081-00	RES,CHIP	22K	5%	1/10W
R8310	1-216-057-00	RES,CHIP	2.2K	5%	1/10W				(KV-29FS60B/32FS60B)		
R8311	1-216-085-00	RES,CHIP	33K	5%	1/10W	R8354	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R8312	1-216-077-00	RES,CHIP	15K	5%	1/10W	R8355	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8313	1-216-041-00	RES,CHIP	470	5%	1/10W	R8356	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8314	1-216-043-91	RES,CHIP	560	5%	1/10W	R8400	1-216-041-00	RES,CHIP	470	5%	1/10W
R8316	1-216-295-91	SHORT	0			R8402	1-216-295-91	SHORT	0		
R8317	1-216-025-91	RES,CHIP	100	5%	1/10W	R8403	1-216-041-00	RES,CHIP	470	5%	1/10W
R8318	1-216-025-91	RES,CHIP	100	5%	1/10W	R8404	1-216-295-91	SHORT	0		
R8319	1-216-295-91	SHORT	0			R8405	1-216-025-91	RES,CHIP	100	5%	1/10W
R8320	1-216-295-91	SHORT	0			R8406	1-216-025-91	RES,CHIP	100	5%	1/10W
R8321	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8407	1-216-295-91	SHORT	0		
R8322	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8408	1-216-295-91	SHORT	0		
R8323	1-216-097-91	RES,CHIP	100K	5%	1/10W	R8409	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8325	1-216-041-00	RES,CHIP	470	5%	1/10W	R8410	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8326	1-216-041-00	RES,CHIP	470	5%	1/10W	R8411	1-216-097-91	RES,CHIP	100K	5%	1/10W
R8327	1-216-041-00	RES,CHIP	470	5%	1/10W	R8412	1-216-041-00	RES,CHIP	470	5%	1/10W
R8328	1-216-041-00	RES,CHIP	470	5%	1/10W	R8413	1-216-041-00	RES,CHIP	470	5%	1/10W
R8329	1-216-041-00	RES,CHIP	470	5%	1/10W	R8414	1-216-041-00	RES,CHIP	470	5%	1/10W
R8330	1-216-041-00	RES,CHIP	470	5%	1/10W	R8416	1-216-041-00	RES,CHIP	470	5%	1/10W
R8331	1-216-041-00	RES,CHIP	470	5%	1/10W	R8417	1-216-041-00	RES,CHIP	470	5%	1/10W
R8332	1-216-041-00	RES,CHIP	470	5%	1/10W	R8418	1-216-041-00	RES,CHIP	470	5%	1/10W
R8333	1-216-041-00	RES,CHIP	470	5%	1/10W	R8419	1-216-041-00	RES,CHIP	470	5%	1/10W
R8334	1-216-017-91	RES,CHIP	47	5%	1/10W	R8420	1-216-041-00	RES,CHIP	470	5%	1/10W
R8335	1-216-017-91	RES,CHIP	47	5%	1/10W	R8421	1-216-049-91	RES,CHIP	1K	5%	1/10W
R8337	1-216-077-00	RES,CHIP	15K	5%	1/10W	R8422	1-216-017-91	RES,CHIP	47	5%	1/10W
R8338	1-216-017-91	RES,CHIP	47	5%	1/10W	R8423	1-216-017-91	RES,CHIP	47	5%	1/10W
R8339	1-216-017-91	RES,CHIP	47	5%	1/10W	R8424	1-216-025-91	RES,CHIP	100	5%	1/10W
R8340	1-216-049-91	RES,CHIP	1K	5%	1/10W	R8425	1-216-077-00	RES,CHIP	15K	5%	1/10W
R8343	1-216-045-00	RES,CHIP	680	5%	1/10W	R8426	1-216-017-91	RES,CHIP	47	5%	1/10W
					(KV-29FS60B/32FS60B)	R8427	1-216-017-91	RES,CHIP	47	5%	1/10W
R8344	1-216-033-00	RES,CHIP	220	5%	1/10W	R8428	1-216-017-91	RES,CHIP	47	5%	1/10W
					(KV-29FS60B/32FS60B)						
						R8429	1-216-041-00	RES,CHIP	470	5%	1/10W
R8345	1-216-033-00	RES,CHIP	220	5%	1/10W	R8430	1-216-041-00	RES,CHIP	470	5%	1/10W
					(KV-29FS60B/32FS60B)	R8431	1-216-017-91	RES,CHIP	47	5%	1/10W
						R8432	1-216-121-91	RES,CHIP	1M	5%	1/10W
									(KV-29FS60B/32FS60B)		

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
R8433	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8705	1-216-295-91	SHORT	0
R8434	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8706	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8450	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8707	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8451	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8708	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8453	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8900	1-216-039-00	RES,CHIP	390 5% 1/10W
R8454	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8901	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8455	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8902	1-216-039-00	RES,CHIP	390 5% 1/10W
R8460	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R8903	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8462	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8904	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8467	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8905	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8468	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8906	1-216-039-00	RES,CHIP	390 5% 1/10W
R8469	1-216-033-00	RES,CHIP	220 5% 1/10W	R8907	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8470	1-216-022-00	RES,CHIP	75 5% 1/10W	R8908	1-216-039-00	RES,CHIP	390 5% 1/10W
R8472	1-216-089-91	RES,CHIP	47K 5% 1/10W	R8909	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8473	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8911	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R8474	1-216-033-00	RES,CHIP	220 5% 1/10W	R8913	1-216-022-00	RES,CHIP	75 5% 1/10W
R8475	1-216-022-00	RES,CHIP	75 5% 1/10W	R8914	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R8500	1-216-017-91	RES,CHIP	47 5% 1/10W	R8915	1-216-022-00	RES,CHIP	75 5% 1/10W
R8501	1-216-075-00	RES,CHIP	12K 5% 1/10W	R8916	1-216-033-00	RES,CHIP	220 5% 1/10W
R8502	1-216-041-00	RES,CHIP	470 5% 1/10W	R8917	1-216-033-00	RES,CHIP	220 5% 1/10W
R8503	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	R8918	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8504	1-216-041-00	RES,CHIP	470 5% 1/10W	R8919	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8505	1-216-047-91	RES,CHIP	820 5% 1/10W	R8922	1-216-022-00	RES,CHIP	75 5% 1/10W
R8506	1-216-091-00	RES,CHIP	56K 5% 1/10W	R8923	1-216-022-00	RES,CHIP	75 5% 1/10W
R8507	1-216-295-91	SHORT	0	R8924	1-216-022-00	RES,CHIP	75 5% 1/10W
R8508	1-216-043-91	RES,CHIP	560 5% 1/10W	R8925	1-216-022-00	RES,CHIP	75 5% 1/10W
R8509	1-216-045-00	RES,CHIP	680 5% 1/10W	R8926	1-216-033-00	RES,CHIP	220 5% 1/10W
R8510	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R8927	1-216-033-00	RES,CHIP	220 5% 1/10W
R8511	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8928	1-216-033-00	RES,CHIP	220 5% 1/10W
R8513	1-216-295-91	SHORT	0	R8929	1-216-039-00	RES,CHIP	390 5% 1/10W
R8514	1-216-017-91	RES,CHIP	47 5% 1/10W	R8930	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8517	1-216-295-91	SHORT	0	R8931	1-216-039-00	RES,CHIP	390 5% 1/10W
R8519	1-216-037-00	RES,CHIP	330 5% 1/10W	R8932	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8520	1-216-041-00	RES,CHIP	470 5% 1/10W	R8933	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8521	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R8934	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8522	1-216-041-00	RES,CHIP	470 5% 1/10W	R8935	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8523	1-216-033-00	RES,CHIP	220 5% 1/10W	R8936	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8525	1-216-295-91	SHORT	0	R8937	1-216-039-00	RES,CHIP	390 5% 1/10W
R8526	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R8938	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8527	1-216-047-91	RES,CHIP	820 5% 1/10W	R8939	1-216-039-00	RES,CHIP	390 5% 1/10W
R8528	1-216-047-91	RES,CHIP	820 5% 1/10W	R8940	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8529	1-216-055-00	RES,CHIP	1.8K 5% 1/10W	R8941	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R8530	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R8942	1-216-009-00	RES,CHIP	22 5% 1/10W
R8531	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R8943	1-216-022-00	RES,CHIP	75 5% 1/10W
R8532	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8944	1-216-071-00	RES,CHIP	8.2K 5% 1/10W
R8700	1-216-049-91	RES,CHIP	1K 5% 1/10W	R8945	1-216-022-00	RES,CHIP	75 5% 1/10W
R8701	1-216-073-00	RES,CHIP	10K 5% 1/10W	R8946	1-216-033-00	RES,CHIP	220 5% 1/10W
R8702	1-216-025-91	RES,CHIP	100 5% 1/10W	R8947	1-216-039-00	RES,CHIP	390 5% 1/10W
R8703	1-216-025-91	RES,CHIP	100 5% 1/10W	R8948	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8704	1-216-025-91	RES,CHIP	100 5% 1/10W	R8949	1-216-022-00	RES,CHIP	75 5% 1/10W
				R8950	1-216-089-91	RES,CHIP	47K 5% 1/10W

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The components identified by shading and marked Δ are critical for safety
Replace only with the part number specified.

REF. NO.	PART.NO	DESCRIPTION	REMARK
R8951	1-216-033-00	RES,CHIP	220 5% 1/10W
R8952	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8953	1-216-039-00	RES,CHIP	390 5% 1/10W
R8954	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8955	1-216-039-00	RES,CHIP	390 5% 1/10W
R8956	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8957	1-216-049-91	RES,CHIP	1K 5% 1/10W
R8958	1-216-089-91	RES,CHIP	47K 5% 1/10W
R8959	1-216-022-00	RES,CHIP	75 5% 1/10W
R8960	1-216-033-00	RES,CHIP	220 5% 1/10W
R8961	1-216-022-00	RES,CHIP	75 5% 1/10W
R8963	1-216-113-00	RES,CHIP	470K 5% 1/10W
R8964	1-216-039-00	RES,CHIP	390 5% 1/10W
R8965	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8968	1-216-022-00	RES,CHIP	75 5% 1/10W
R8969	1-216-033-00	RES,CHIP	220 5% 1/10W
R8977	1-216-037-00	RES,CHIP	330 5% 1/10W
R8978	1-216-037-00	RES,CHIP	330 5% 1/10W
R8979	1-216-045-00	RES,CHIP	680 5% 1/10W
R8980	1-216-045-00	RES,CHIP	680 5% 1/10W
R8981	1-216-085-00	RES,CHIP	33K 5% 1/10W
R8982	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8983	1-216-077-00	RES,CHIP	15K 5% 1/10W
R8990	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8991	1-216-097-91	RES,CHIP	100K 5% 1/10W
R8992	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8993	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R8994	1-216-073-00	RES,CHIP	10K 5% 1/10W
R8995	1-216-089-91	RES,CHIP	47K 5% 1/10W
< CRYSTAL >			
X8200	1-781-148-21	VIBRATOR, CRYSTAL	
X8300	1-567-504-11	OSCILLATOR, CRYSTAL	
X8301	1-567-505-11	OSCILLATOR, CRYSTAL	
X8400	1-567-504-11	OSCILLATOR, CRYSTAL	
X8401	1-567-505-11	OSCILLATOR, CRYSTAL	
X8700	1-767-342-21	VIBRATOR, CRYSTAL	

REF. NO.	PART.NO	DESCRIPTION	REMARK
MISCELLANEOUS			

Δ	1-416-654-11	COIL DEMAGNETIC (KV-29FS60)	
Δ	1-416-769-11	COIL DEMAGNETIC (KV-32FS60)	
	1-425-032-00	MAGNET, DISK: 10MM	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM	
Δ	1-453-272-11	TRANSFORMER ASSY, FLYBACK (NX-4512/U2B4)	
	1-529-153-11	SPEAKER (4.8X20CM)	
	1-529-144-11	SPEAKER (13CM)	
	1-452-896-11	COIL, NA ROTATION (RT200)	
Δ	1-571-433-21	SWITCH, PUSH (AC POWER)	
Δ	1-574-062-61	CORD POWER (WITH CONNECTOR)	
		(KV-29FS60A/29FS60B/29FS60D/ 29FS60E/29FS60K/29FS60R/ 32FS60A/32FS60B/32FS60D/ 32FS60E)	
Δ	1-590-762-21	CORD POWER (WITH UK PLUG) (KV-29FS60U)	
	1-693-338-11	TUNER/VIF (AEP)	
		(KV-29FS60A/29FS60D/29FS60E/ 29FS60K/29FS60R/ 32FS60A/32FS60D/32FS60E)	
	1-693-340-11	TUNER/VIF (FR) (KV-29FS60B/32FS60B)	
	1-693-339-11	TUNER/VIF (UK) (KV-29FS60U)	
Δ	8-735-053-05	PICTURE TUBE (M68LNH060X) (KV-29FS60)	
Δ	8-735-054-05	PICTURE TUBE (W76LLZ060X) (SD-302) (KV-32FS60)	
Δ	8-451-504-11	DEFLECTION YOKE (KV-29FS60)	
Δ	1-451-480-11	DEFLECTION YOKE (KV-32FS60)	
Δ	8-453-011-11	NECK ASSY, NA299-M	
Δ	1-251-317-31	CAP ASSY, HIGH VOLTAGE	
	*1-204-549-01	BRACKET, MAIN	
	1-790-082-11	CABLE, RF	
	1-771-599-11	SWITCH ARRAY	

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
ACCESSORIES AND PACKAGING MATERIALS (KV-29FS60)							

	1-765-654-11	CABLE, SPEAKER					
	4-204-589-41	MANUAL, INSTRUCTION (KV-29FS60A)					
		(ITALIAN)					
	4-204-589-51	MANUAL, INSTRUCTION (KV-29FS60B)					
		(FRENCH/GERMAN/ITALIAN/DUTCH)					
	4-204-589-11	MANUAL, INSTRUCTION (KV-29FS60D)					
		(GREEK/ENGLISH/DUTCH/TURKISH)					
	4-204-589-71	MANUAL, INSTRUCTION (KV-29FS60E)					
		(SPANISH)					
	4-204-589-81	MANUAL, INSTRUCTION (KV-29FS60E)					
		(PORTUGUESE/FINNISH/DANISH/NORWEGIAN/SWEDISH)					
	4-204-589-91	MANUAL, INSTRUCTION (KV-29FS60K/29FS60R)					
		(RUSSIAN/BULGARIAN/ENGLISH/POLISH/HUNGARIAN)					
	4-204-589-61	MANUAL, INSTRUCTION (KV-29FS60U)					
		(ENGLISH)					
	*4-204-476-01	BAG PROTECTION					
	*4-204-475-01	INDIVIDUAL CARTON					
	*4-204-553-01	CUSHION (UPPER) (ASSY)					
	*4-204-556-01	CUSHION (LOWER) (ASSY)					

ACCESSORIES AND PACKAGING MATERIALS (KV-32FS60)							

	1-765-654-11	CABLE, SPEAKER					
	4-204-562-41	MANUAL, INSTRUCTION (KV-32FS60A)					
		(ITALIAN)					
	4-204-562-51	MANUAL, INSTRUCTION (KV-32FS60B)					
		(FRENCH/GERMAN/ITALIAN/DUTCH)					
	4-204-562-11	MANUAL, INSTRUCTION (KV-32FS60D)					
		(ENGLISH/GERMAN)					
	4-204-562-71	MANUAL, INSTRUCTION (KV-32FS60E)					
		(SPANISH/PORTUGUESE/FINNISH/DANISH/NORWEGIAN/SWEDISH)					
	*4-060-976-01	BAG PROTECTION					
	*4-204-475-01	INDIVIDUAL CARTON					
	*4-204-380-01	CUSHION (UPPER) (ASSY)					
	*4-204-381-01	CUSHION (LOWER) (ASSY)					

REMOTE COMMANDER							

	1-418-047-11	REMOTE COMMANDER (RM-891)					

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SERVICE MANUAL

AE-5 CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-29FS60A	RM-891	Italian	SCC-Q12E-A	KV-32FS60A	RM-891	Italian	SCC-Q12F-A
KV-29FS60B	RM-891	French	SCC-Q13E-A	KV-32FS60B	RM-891	French	SCC-Q13F-A
KV-29FS60D	RM-891	AEP	SCC-Q11E-A	KV-32FS60D	RM-891	AEP	SCC-Q11F-A
KV-29FS60E	RM-891	Spanish	SCC-Q14E-A	KV-32FS60E	RM-891	Spanish	SCC-Q14F-A
KV-29FS60K	RM-891	OIRT	SCC-Q16G-A				
KV-29FS60R	RM-891	OIRT	SCC-Q16H-A				
KV-29FS60U	RM-891	UK	SCC-Q15D-A				

CORRECTION - 1

SUBJECT : D BOARD PWB ERROR

File this correction with the service manual

INTRODUCTION : Due to a printing error the D Board PWB layout is incorrect. Refer to the layout indicated in this correction bulletin.

- **D Board [Power Supply and Deflection].....See page 119**

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[POWER SUPPLY AND DEFLECTION]



